

The



# CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

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VOL. CXXXVI

FEBRUARY 6, 1937

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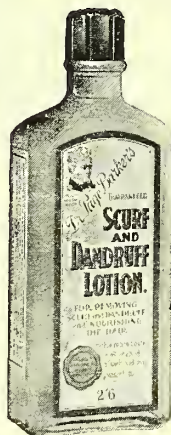
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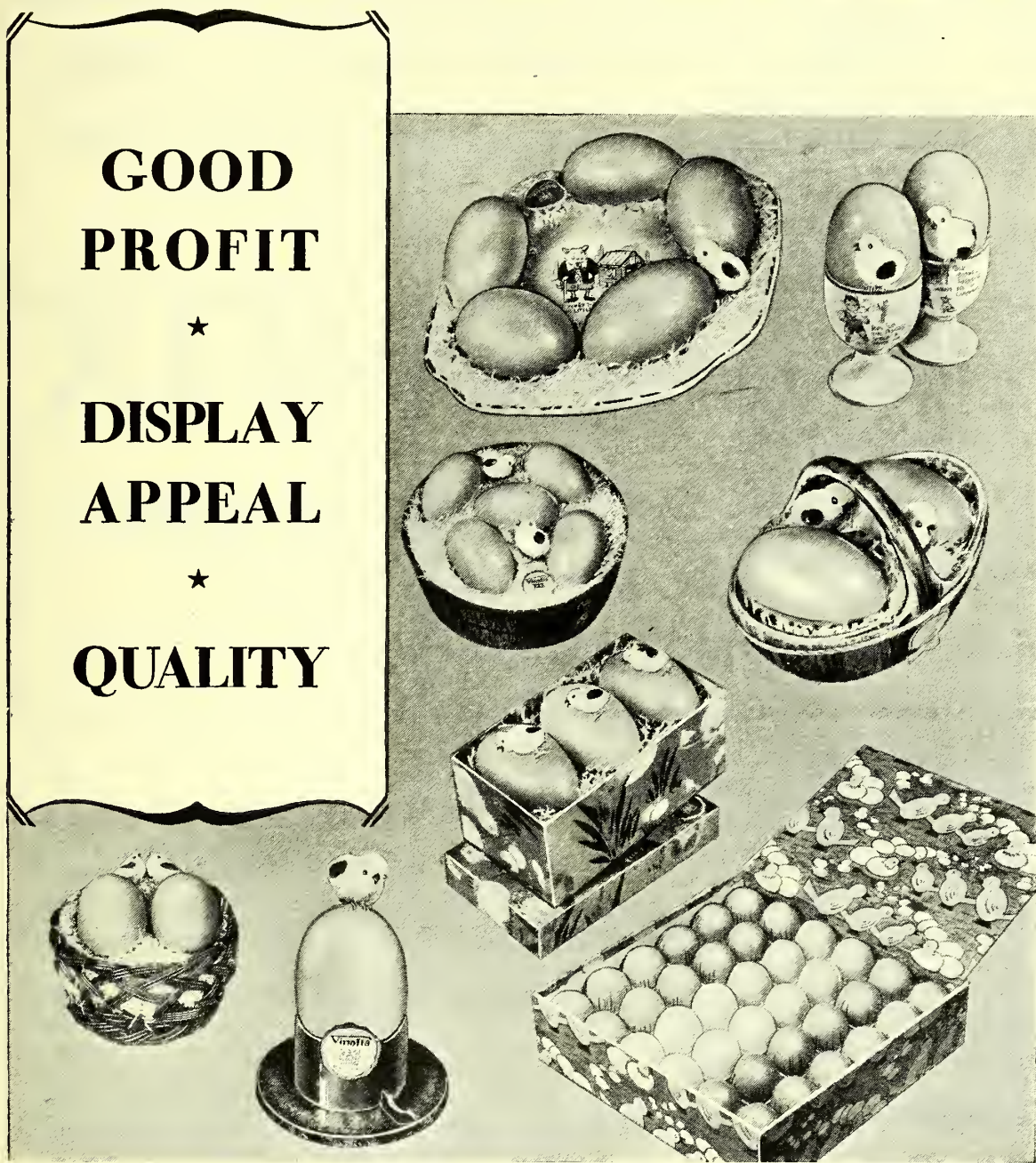
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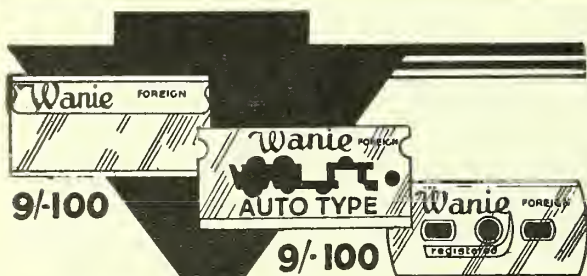
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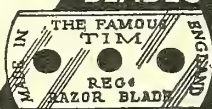
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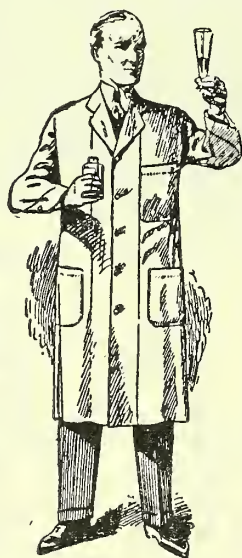
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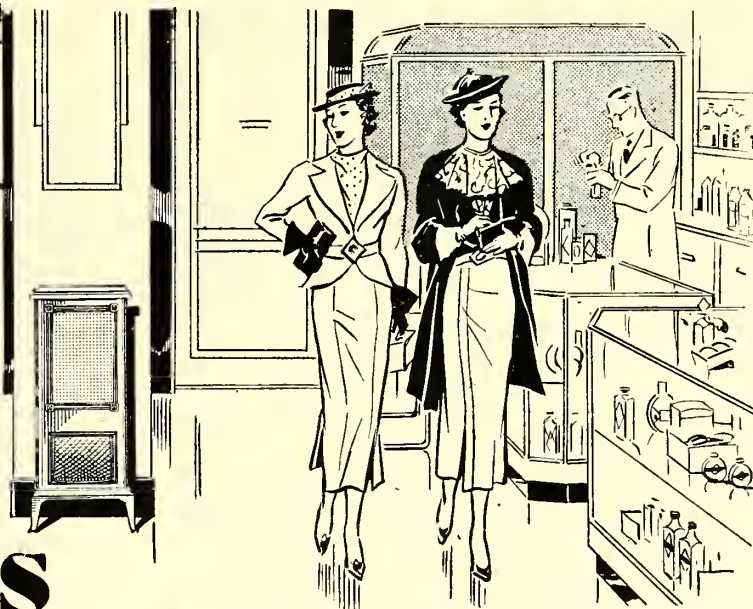
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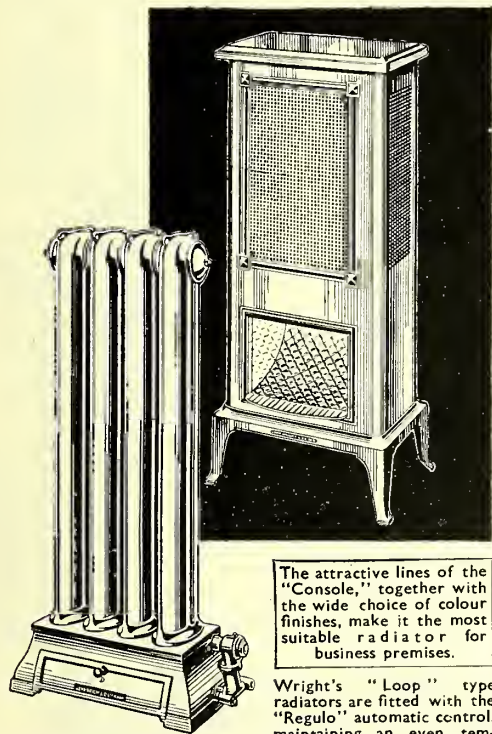
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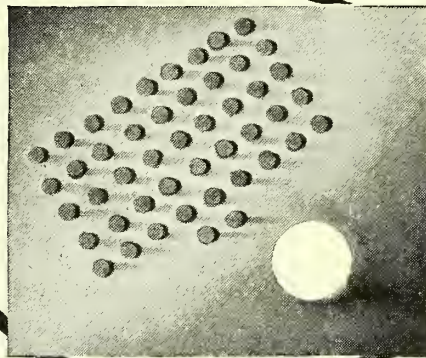
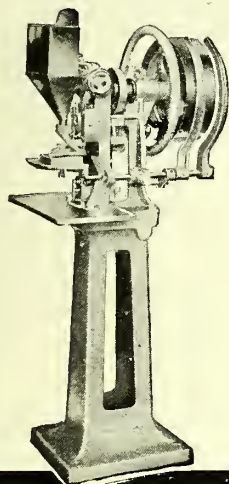
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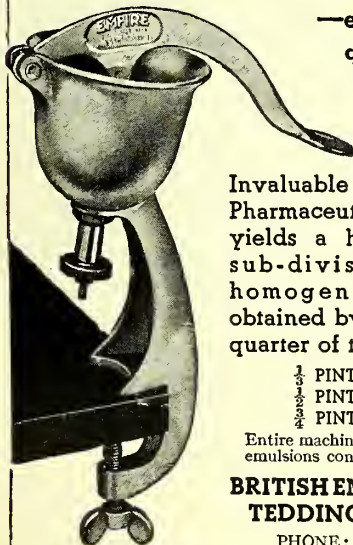
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Makers of CHEMICAL & PHARMACEUTICAL MACHINERY  
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## THE EMPIRE EMULSIFYING MACHINE

—easily and  
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Invaluable for the making of Pharmaceutical Emulsions—yields a higher degree of sub-division and better homogenisation than is obtained by hand and in one quarter of the time.

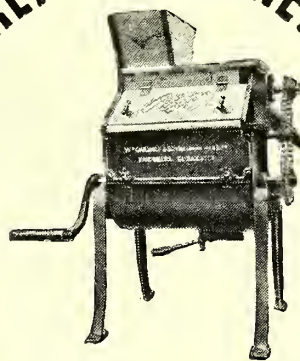
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Entire machine Chromium Plated (for emulsions containing ALKALI) 25/-

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	Finish.		Finish.	
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18-in.	2/3 "		4/6 "	
21-in.	2/9 "		5/3 "	
24-in.	3/3 "		6/- "	
30-in.	3/9 "		7/6 "	

*Owing to the increased costs of raw materials we are compelled to raise the above prices 10%*



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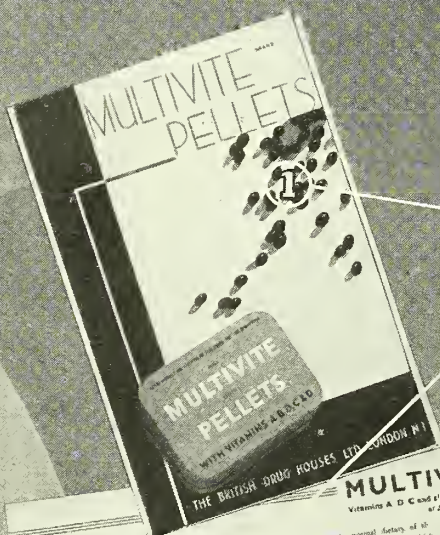
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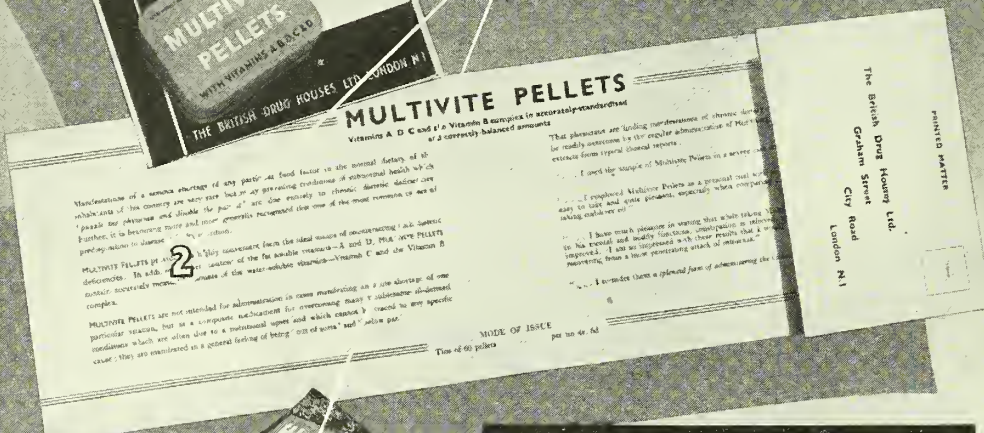


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## MEDICAL PROPAGANDA

In October 1936 this circular (No. 1) was sent to 28,000 doctors in the British Isles. In November it was followed up by another circular (No. 2). 7,571 requests for samples (No. 3) were received from doctors.



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# The CHEMIST AND DRUGGIST

The Business Newspaper for all Sections of the Drug, Pharmaceutical, Chemical, Cosmetic, Perfumery and Associated Industries

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## News of the Week

### I.F.S. Import Duties

The Free State Executive Council has made an Order increasing the duty on imported disinfectants, insecticides, verminicides, vermicides, or fungicides from 20 to 33½ per cent. *ad valorem*, and making all these articles also liable to the package duty.

A further Order was made replacing the existing duty on sodium carbonate imported in crystalline form by a duty on "sodium carbonate other than sodium carbonate imported in powder form." The rate of duty (2s. a cwt.) remains unchanged.

### Dangerous Drugs Acts, 1920-32

(From "The London Gazette," January 29, 1937)

#### WITHDRAWAL OF AUTHORITY

Whereas Philip George Bainbridge, L.R.C.P., L.R.C.S. (Edin.), L.R.F.P.S. (Glasg.), of 27 Park Road East, Wolverhampton (whose registered address is "Condoover," Codsall Road, Tettenhall, Staffordshire), has been convicted of offences against the Dangerous Drugs Acts:

And whereas the said Philip George Bainbridge cannot, in my opinion, properly be allowed to be in possession of or to supply any of the drugs or preparations to which Part III of the Dangerous Drugs Act, 1920, applies:

Now, therefore, in pursuance of the powers conferred on me by Regulation 6 of the Raw Opium Regulations, 1921, as extended by the Coca Leaves and Indian Hemp Regulations, 1928, and by Regulation 7 of the Dangerous Drugs (Consolidation) Regulations, 1928, I hereby give notice that I withdraw,

as from to-day's date, from the said Philip George Bainbridge, the authority granted by the said Regulations to duly qualified medical practitioners to be in possession of and to supply raw opium, coca leaves, Indian hemp, and the drugs and preparations to which Part III of the Dangerous Drugs Act, 1920, applies:

And I also direct, as from the same date, that it shall not be lawful for the said Philip George Bainbridge to give prescriptions for the purposes of the Dangerous Drugs (Consolidation) Regulations, 1928.

JOHN SIMON,  
One of His Majesty's Principal  
Secretaries of State.

Whitehall, January 22, 1937.

### Acetylene Order

By an Order in Council published in "The London Gazette" of February 2, acetylene, when liquid or subject to a pressure of more than 9 lb. per sq. in. above that of the atmosphere, or when mixed with air or oxygen, and whether mixed with other substances or not, is deemed to be an explosive within the meaning of the Explosives Act, 1875. The Secretary of State may, in given circumstances, make an exempting Order. The manufacture, storage, importation, conveyance and sale of acetylene as defined in the Order is prohibited as from February 3. It is provided that nothing in this Order shall apply—

(1) To the manufacture or keeping of acetylene under the following conditions:—(a) that the pressure to which the acetylene is subjected shall not exceed 22 lb. to the square inch above that of the atmosphere, and (b) that the manufac-

ture and keeping shall be carried out only on such premises and under such conditions as may be approved by the Secretary of State; or

(2) to acetylene in admixture with air or oxygen when such admixture takes place only in the burner or contrivance in which the mixture is intended to be burnt; or

(3) to an admixture of acetylene and air which may unavoidably occur in the first use or recharging of an apparatus, properly designed and constructed with a view to the production of pure acetylene.

### Trade Marks (Amendment) Bill

On January 28 the Trade Marks (Amendment) Bill was read a second time in the House of Lords. Lord Templemore, who moved the second reading, stated that the Bill, under Clause 7, proposes to allow a trade mark to be assigned and transmitted either with or without the goodwill of the business concerned and either for all or for some only of the goods in respect of which it is registered. But to prevent such a freedom of assignment from resulting in deception of the public, the Bill provides that transfer of a trade mark shall not be permissible if it would result in rights being given to more than one person for the use of the same or of a similar trade mark upon the same goods or similar goods so as to be likely to be deceived or cause confusion. Another proposal relates to Part B of the Register. It is, at present, a requirement for registration in Part B that the trade mark shall have been used for two years, and experience has shown that this requirement enables foreign competitors of British exporters to forestall them upon foreign trade mark registers. The Bill accordingly deals with this by omitting Section 2 (1) of the Act of 1919.

### Shops (Retail Trading Safeguards) Bill

In the House of Commons, on January 29, Captain Harold Balfour moved the second reading of the Shops (Retail Trading Safeguards) Bill. The motion was by Major Courtauld. Mr. Mabane moved an amendment to postpone the second reading for six months, and Mr. Orr-Ewing seconded the amendment. After a succession of speeches lasting from 11.5 a.m. to 2.26 p.m., the House was "counted out."

### British Medical Association

At the meeting of the Council of the British Medical Association reported in the Journal of the Association for January 30, it was stated that a subcommittee of the Insurance Acts Committee was preparing the case for an increase in the capitation fee. Speaking on contract practice, Dr. J. B. Miller expressed the view that public medical service would have a short life, as it was bound to disappear when an extension of National Health Insurance to cover dependants came about.

### Sessional Events

The annual meeting of the Bolton and District Chemists' Association was held at Bolton on January 22, when Mr. J. R. Walmsley was elected *Chairman* and Mr. R. Dunne was re-elected *Treasurer* and *Secretary*.

The Tunbridge Wells and District Branch held their first dance of the year on January 27. During the evening spot prizes were won by Mrs. Longhurst, Mrs. L. Godkin and Miss Tester, Messrs. Longhurst, G. Farrer and Button. A raffle was held in aid of the Benevolent Fund, the prize going to Mr. T. D. Davidson.

Mr. W. T. Stephens presided over the monthly meeting of the Huddersfield Branch of the National Pharmaceutical Union. He spoke of the loss felt by members at the death of Mr. Peach, who had been held in high esteem by all. Members stood in silence as a token of respect. The secretary gave a report on the response of members to the local advertising scheme, and it was decided to proceed with it forthwith.

At the annual meeting of the Medway Branch of the Pharmaceutical Society, on January 28, the following officers were elected: *Chairman*, Mr. A. H. Clark; *Vice-Chairman*, Mr. D. Hughes; *Treasurer*, Mr. J. E. French; *Secretary*, Mr. L. R. Nicholson. The following resolution, proposed by Mr. French, and seconded by Mr. Crick, was passed: "In the opinion of this Branch of 140 members, greater enthusiasm would be created in pharmaceutical organisation if the Council were elected on a territorial basis, that is, by wards. It would enable members of the Pharmaceutical Society to get in closer touch with their representative."

The annual dinner of the Mansfield and District Branch of the Pharmaceutical Society was held at Mansfield on January 20, Mr. F. L. King (president) in the chair. Mr. H. M. Hirst, Scarborough (a member of the Society's Council); Mr. R. P. Marchant (chairman, Notts Pharmaceutical Service Subcommittee); Mr. A. O. Bentley (head of Pharmacy Department, Nottingham University College); and Mr. J. Hague, Lincoln (area representative, National Pharmaceutical Union), were present. The toast "The Mansfield and District Branch of the Society" was proposed by Mr. Bentley who, as a past-president of the Nottingham Branch, conveyed the good wishes of that body to the Mansfield members.

Mr. John Hague, Lincoln (a member of the National Pharmaceutical Union executive) addressed the Peterborough and District Chemists' Association on January 19. Mr. Hague said the Chemists' Friends scheme was making good progress and he was more optimistic than ever he had been. Many members expressed the opinion that it would be a tremendous advantage if the multiple chemists joined the scheme. Mr. Hague referred also to the Shops (Sunday Trading Restriction) Act, and gave numerous examples of the activities of the Chemists' Defence Association. Mr. Whitwell presided, and Messrs. Whitwell, Stanyon, Sturton, Duffield, Graham, Jones, Evans, Judge and Wright took part in the discussion.

The annual meeting of the Aberdare and Merthyr Branch of the Pharmaceutical Society was held at Merthyr on January 25, Mr. Ivor Ll. Richards in the chair. A vote of condolence with the relatives of the late Mr. W. H. Jones, Ph.C., Aberdare, was passed, all members standing. The following officers were elected:—*President*, Mr. A. B. Andrews, Aberdare; *Vice-President*, Mr. H. Parry, Nelson; *Treasurer*, Mr. H. M. Lloyd, J.P., Merthyr; *Secretary*, Mr. H. Noel Thomas, 25 Whitcombe Street, Aberdare, Glamorgan. The accounts for the past year were submitted by the treasurer and audited by Messrs. John Francis and H. Parry. A long discussion was held on federation of branches, and the secretary was instructed to reply to the *questionnaire* of the Society. It was decided that the president should be sent to a meeting arranged by the Oldham and District Chemists' Association in London and report at an early date.

### Blackpool

A scheme for opening by rota on Wednesday afternoons and Sundays during the winter months has been adopted by chemists in the Central Drive, Layton, and Lytham Road, South Shore, districts of Blackpool. The scheme has been sanctioned by the Ministry of Health.

Representatives of civic, medical and insurance circles were present at a dinner and dance organised by the Blackpool Branch of the Pharmaceutical Society at the Queen's Hydro on January 20. They included the Mayor of Blackpool; Dr. F. Hilliard (president, Blackpool Branch, British Medical Association); Councillor D. J. Bailey (chairman, Blackpool Health Committee); and Mr. J. D. Tomlinson (Clerk to the Blackpool Insurance Committee). Alderman H. M. Lloyd, J.P., represented the Pharmaceutical Society's council. Mr. S. C. Coope (president) proposed "The County Borough of Blackpool." The Mayor replied. Alderman Lloyd, responding to the toast "The Pharmaceutical Society," claimed that the Society had tackled the problem of education, and pharmacy now stood shoulder to shoulder with other professions. He urged that chemists and doctors should each stick to their own duties. He was pleased to say that pharmacists were at last in sight of having their specialised knowledge recognised by the War Office. He stressed the importance of the Society's new building. The Pharmacological Laboratories had given added status to pharmacy, and the new study of biochemical analysis had enabled them to meet the requirements of modern diagnosis. "The Medical Profession" and "The Insurance Committee" were toasted by Mr. J. W. Huddart and Dr. Hilliard; Mr. Tomlinson replied. Mr. C. Cornforth greeted the ladies and visitors, on whose behalf Mr. F. L. Gutteridge (Evans Sons Lescher & Webb, Ltd.) responded.

### Cambridge

The thirteenth annual general meeting of the Cambridge and District branch of the Pharmaceutical Society was held on January 28, Mr. John Evans presiding. Members stood in silence as a mark of respect to five members who had died during the year. The chairman thanked members for their



support of the dinner given to Mr. E. Saville Peck in honour of his presidency of the Society, and for the manner in which they had subscribed to the Benevolent Fund. Mr. Peck thanked the members for the honour bestowed on him. The treasurer reported a credit balance, in spite of the heavy expenditure of the year. The secretary, in his report, stated that the Cambridge Branch was third in the list issued by the Benevolent Fund Committee. On behalf of the National Pharmaceutical Union much good work had been done for the Chemists' Friends scheme; every chemist in the town had signed the Wembley agreement. He also mentioned the work which was being done by Mr. J. B. Simmons, who, he said, was proving himself an inspired letter writer. The rules suggested by the Council of the Society were adopted. The following officers were elected:—*Chairman*, Mr. John Evans; *Vice-Chairman*, Mr. P. E. Cottis; *Treasurer*, Mr. J. B. Simmons; *Secretary*, Mr. M. W. Heap; *Auditor*, Mr. A. A. Deck; *Committee*, Messrs. G. E. Butcher, B. S. Campkin, F. E. Harris, R. A. Hopkins, E. E. Orange, J. M. Palmer, M. E. Parson, E. S. Peck, and L. W. Stearn. After discussion on several subjects, it was resolved to try to obtain general agreement to charge an extra fee for dispensing prescriptions for Fourth Schedule poisons, and the secretary was instructed to ask the N.P.U. to approach the Ministry of Health with reference to N.H.I. prescriptions.

### Leicester

B.Pharm. and Ph.C. students (twelve in number) of the Leicester College of Technology School of Pharmacy have spent several days in London visiting wholesale houses and research institutions. The tour commenced on January 27, when the party, in charge of Mr. A. Chamings (head of the school) and Miss L. A. Kay, visited the Port of London Authority's warehouses in Cutler Street. Here they were met by Mr. O. Shaw (director, The British Drug Houses, Ltd.) and conducted round the silk, drug, carpet, curio and feather sections. After being entertained at lunch by Mr. R. R. Bennett (director, The British Drug Houses, Ltd.) the party proceeded to the B.D.H. laboratories in Graham Street, City Road, and witnessed the manufacture of insulin and many fine chemicals. On the following morning the Bethnal Green works of Allen & Hanburys, Ltd., was visited. The party was the first to tour the manufacturing and surgical instrument sections. Mr. W. B. Nelson and Mr. E. C. Cripps acted as guides. The afternoon was spent in the model research laboratory of the Pharmacopœia Research Commission, Dr. C. H. Hampshire and his assistant (Mr. R. Page) giving useful information regarding the work in progress. The next day was occupied with visits to the School of Tropical Medicine, Gower Street, and the Wellcome Historical Medical Museum, Euston Road. The final visit on the last morning was to the pharmacological laboratories of the Pharmaceutical Society (by permission of Professor Burn). Dr. Dyer, Dr. K. Coward and their colleagues gave demonstrations of methods of biological assay and some of the more recent developments in hormone therapy.

### Liverpool

Mr. William Parry, who has been representing Burge, Warren & Ridgley, Ltd., in Liverpool for many years, celebrated his ninety-second birthday on January 17.

Lever Brothers, Ltd., and their associated companies are increasing, as from April 5, the wages of certain classes of their employees by 4s. a week for male workers and 2s. a week for female workers. About 5,000 employees will benefit.

### London

The International Faculty of Science held a dinner at the Holborn Restaurant, W.C.2, on January 30. Mr. J. L. Baird was presented with the gold medal and diploma of the Faculty.

A party of fifty-eight members and their friends from the Wimbledon and District Pharmacists' Association and Branch visited the laboratories of Parke, Davis & Co., Hounslow, on January 27. After lunch, two photographs of the party were taken. A tour was made of the works, including the new building, which this branch was the first to visit. Members were particularly interested in the analytical laboratory and the printing department. After tea, a vote of thanks to the firm was proposed by the vice-president (Mr. Weston) and seconded by the secretary (Mr. James). Mr. Earheart suitably replied.

### Manchester

The meeting of the Manchester Pharmaceutical Association on January 28 is referred to on p. 174.

The annual meeting of the Manchester and District Branch of the Photographic Dealers' Association was to have taken place on January 26; but owing to the fact that there was not a quorum the meeting had to be postponed to February 18. It is expected that the influenza-epidemic will have somewhat abated by then.

### Middlesbrough

The Middlesbrough and District Pharmacists' Association held their second whist drive of the season on January 13. Mr. C. H. Thompson (president) welcomed the guests; and prizes were presented by Mrs. J. C. Thompson (mother of the president) to the following:—*Gentlemen*: Mr. R. M. Murray; Mrs. W. R. Brackenbury, playing as gentleman; Mr. Kay; and (consolation) Mr. C. H. Thompson. *Ladies*: Miss Pamley; Mrs. Drust; Mrs. Dean; and (consolation) Mrs. Nimmo.

A meeting of the Tees-side Branch of the Pharmaceutical Society was held on January 27, Mr. W. R. Brackenbury presiding. The chairman congratulated the speaker (Mr. H. M. Hirst) on his success at the last Council election. Mr. Hirst, replying, said that his election expenses did not exceed £5, and it was possible for the average retail member—provided he had identified himself with pharmaceutical organisation work—to become a councillor, even under present conditions, without being out of pocket. He mentioned this as distinct encouragement especially to the younger members of the Society. Speaking on "The Duties of a Pharmaceutical Councillor," he dealt with the procedure and methods adopted in Committee and Council. Mr. Hirst afterwards answered many questions put to him, also explaining his attitude with regard to resolutions proposed and adopted at the annual Branch Conference. A hearty vote of thanks was accorded to Mr. Hirst.

### Norwich

Norwich and District Branch of the Pharmaceutical Society held its annual dance in aid of the Benevolent Fund at Norwich recently. Many novel competitions were arranged, the prizes being distributed by Mrs. W. G. Lacey, wife of the president, who was presented with a bouquet. The winners were:—Lucky spot waltz, Mr. Winter and Miss Armstrong, Mr. and Mrs. Mauser; lucky partner, Miss Eve Hunter and Mr. Ayton; lucky cloak-room ticket, Miss M. Gaze and Mr. Browne; elimination dance, Mr. Smith and Miss Leveridge. A basket of flowers was presented to Miss Cremer, who was celebrating her coming of age with a party at the dance. The M.C.s were Mr. J. Cook and Mr. F. J. Cook.

### Nottingham

The Sir Jesse Boot Foundation Lecture to be given during the spring term at Nottingham University College on the subject "Where Chemistry and Biology Meet" will be delivered by Professor J. Masson Gulland.

A meeting of the Nottingham and District Branch of the Pharmaceutical Society was held on January 27 to hear an address on "Air Raid Precautions" by Major I. Cohen, M.D. Mr. F. W. Moulds presided. The speaker dealt with the various gases which might be used for offensive purposes, including chlorine, phosgene, diphenyl-chlorarsine, diphenyl-amino-chlorarsine, diphenyl-cyanoarsine, chloro-acetophenone, ethyl-iodo-acetate, bromobenzylcyanide, mustard gas and lewisite. He gave details of the correct first-aid treatment. Questions were asked by Messrs. F. W. Shepherd, R. A. Raley, and F. A. Bates.

### Oldham

The Oldham and District Chemists' Association called a meeting of representatives from the Branches of the Pharmaceutical Society at the Imperial Hotel, London, W.C.1, on January 31, to consider if any united action could be agreed upon because the Council declined to put into effect a resolution passed at the Bournemouth Conference. Personal donations from interested members were received, amounting to £5 17s. It was resolved that Mr. Frank Newby be chairman. Mr. Newby thanked the members present and promised to fill that important position to the best of his ability; he briefly outlined the reasons for the steps taken by the chemists of



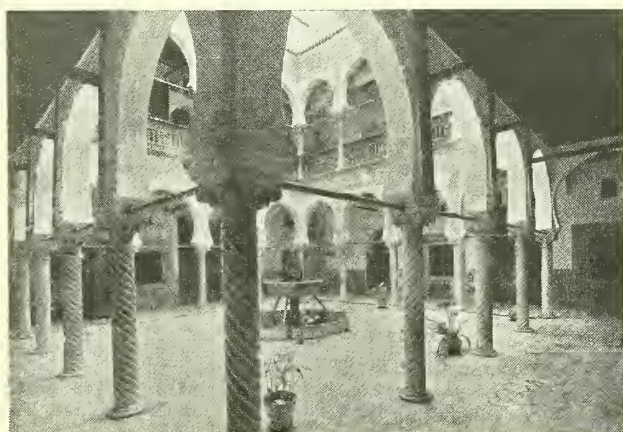
Oldham. It was resolved that Mr. W. Garside act as secretary. After considerable discussion, it was decided that a National Election Committee be formed to secure the representation of retail chemists on the Council of the Society. It was also resolved that five candidates be supported. A subcommittee of five was appointed, with power to act in case of necessity, and to arrange for a future meeting.

### Miscellaneous

**FIRE.**—An outbreak of fire occurred recently on premises belonging to Mr. A. A. Ringer, Ph.C., Southwell, Notts, and considerable damage was caused to the stock.

**FORTHCOMING EXHIBITION.**—The Corporation of Luton is organising a Luton Municipal and Bedfordshire Industries Exhibition, to be held on May 11-22 inclusive. Particulars may be obtained from the Secretary, Luton Municipal Exhibition, c/o Town Clerk's Offices, Luton.

**DEFICIENT TINCTURE OF IODINE.**—A report on the analysis of food and drugs in Oldham during the past three months states that three samples of tincture of iodine were incorrectly prepared. Deficiencies of 22.8, 34.4 and 36 per cent. were found in two analyses; potassium iodide was also deficient to the extent of 20 and 30 per cent., while the third sample was 26 per cent. in excess.



[Photo]

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THE NATIONAL LIBRARY, ALGIERS, VISITED BY THE 1936 CONGRESS OF THE SOUTH-EASTERN PHARMACEUTICAL SYNDICATES.

## Scottish Notes

### Brevities

**CHEMISTS' FRIENDLY SOCIETY.**—The twenty-fourth annual general meeting of the Chemists' Friendly Society was held on January 28. The report and accounts showed the society to be in a flourishing condition. Mr. A. B. Gilmour was elected *President*; other office bearers were also elected.

Many past and present students of the Dundee School of Pharmacy attended the funeral of Mr. J. B. Roger, laboratory steward in the chemistry department, who for nearly twenty-eight years had been associated with the Technical College, Dundee. A correspondent writes: "Mr. Roger was well known to hundreds of pharmacists who studied in Dundee and who are now settled throughout the Empire. These pharmacists owe a great deal to Mr. Roger . . . I can assure you of his popularity." Mr. Roger was fifty-two years of age.

### Edinburgh

At the annual meeting of the Edinburgh Royal Public Dispensary held in the City Chambers, Edinburgh, on January 30, Lord Provost L. S. Gumley referred to the dispensary's 161 years' record of work for the sick poor of the city. During 1936 the total number of patients treated was 4,314, compared with 3,845 in the previous year, and the total number of prescriptions dispensed for the year was 4,591, against 3,989. Owing to a city clearance scheme the old building is to be replaced by a new building.

Professor James Kendall, F.R.S. (general secretary), speaking at a meeting of the Royal Society of Edinburgh on February 1 on "Ions and Isotopes," said an American discovery in chemistry, "one of the most important in recent years," had anticipated the work of Edinburgh scientists. It was for a long time a matter of dispute between chemists and physicists, he said, whether the mobility of an ion (the speed with which it migrates through the solution towards the electrode under the influence of the electric current) is dependent upon its volume or upon its mass. A method by which the separation of isotopes was attempted was that of fractional electrolysis, and in 1923 a slight fractionation of mercury was achieved thereby. In the expectation that more conclusive results would be obtained with a lighter element than mercury a systematic study of this method was begun in Edinburgh in 1930. A large amount of work had already been done on lithium when the discovery of the isotopic character of hydrogen directed attention to that element. Spectrographic evidence that the proportion of "heavy" hydrogen in the first fractions of the electrolysis of water was less than in ordinary hydrogen had been obtained when investigators in America announced the isolation of pure "heavy" hydrogen from the final fractions of the electrolysis.

### Glasgow and West of Scotland

A meeting of the Paisley and District Chemists' Association was held at Paisley recently. Mr. Thomas McKeir (vice-president) in the chair. Subjects under discussion included dispensing charges; stocking of proprietary preparations yielding small profit; Sunday hours of business; house-to-house distribution of coupons offering bottles of lysol solution.

At a meeting of the Glasgow and South-West Scottish Branch of the Pharmaceutical Society in Glasgow recently, a lecture on "The Anæmias and Their Treatment" was delivered by Dr. Stanley Alstead (Department of Materia Medica, University of Glasgow). Mr. A. B. Gilmour (chairman) presided, and introduced the lecturer. Dr. Alstead said that abnormal conditions of the blood were really evidence of disorders in the blood-forming tissues. He wished to focus attention upon the red blood cell, and the importance of the contained hæmoglobin. Pernicious anæmia offered a complete contrast to hæmoglobin-deficiency anæmia. The disorder consisted essentially of a failure of the red blood cells to mature, owing to lack of a certain chemical stimulus. The raw materials for manufacturing red blood cells were present in abundance, but could be regarded as "frozen assets." Hence the scantiness of the red blood cells, which were, however, bigger than normal and literally stuffed with hæmoglobin. The natural synthesis of the blood-forming substances from the union of intrinsic factor (secreted by the stomach) with extrinsic factor (contained in the food) and its storage in the liver was described in the light of present views.

Asked regarding the use of arsenic in anæmia, Dr. Alstead replied that arsenic stimulated bone marrow to better utilisation of available resources. Before liver treatment was introduced, arsenic was used with definite but temporary benefit in cases of pernicious anæmia. Questioned regarding subacute combined degeneration of the spinal cord, Dr. Alstead said that liver extract had no effect on this disease once it was established. Many authorities thought that massive doses of liver in pernicious anæmia could reduce the incidence of this disease of the spinal cord. Asked regarding the relationship of the intrinsic factor to hydrochloric acid and whether large doses of iron were necessary in the treatment of hæmoglobin-deficiency anæmia, Dr. Alstead said that there was no relationship except that when the gastric functions failed as, in the case of pernicious anæmia, a patient could live without hydrochloric acid and pepsin, but intrinsic factor was essential to life. The absence of hydrochloric acid was important mainly as an indication of failure of all gastric secretions. With regard to iron, the practice, until about five years ago, was to give smaller doses, and many authorities still thought that small doses were sufficiently effective; the larger doses were given to secure the maximum effect in the minimum of time. Many substances were only absorbed in the requisite amount if taken in excess. Questioned regarding the presence of copper as an impurity in iron and the suggestion that this copper might explain why iron treatment was so effective, Dr. Alstead said that copper was one of the catalysts necessary for the proper utilisation of iron. It was admitted that a minute quantity of copper— $\frac{1}{100}$  gr. in twenty-four hours—was needed, but more than enough existed in the food.



## Irish Notes

## Pharmaceutical Society of Ireland

The following passed the recent Assistants' examination held by the Pharmaceutical Society of Ireland: John Gerard Duffy, Patrick J. Killian, Adam Mitchell, Thomas B. Mooney, Annie Josephine Mulvihill, George A. Murray, Thomas Michael Nolan, Daniel O'Connell, Bart. C. Sullivan, Frederick Stanley Watson.

It is officially announced that the Minister for Justice has sanctioned the amended Preliminary Examination Regulations of the Pharmaceutical Society of Ireland. From February 1 the Society will accept the Matriculation examination of the National University of Ireland in Irish, English, Latin, Mathematics and any other subject.

## Photo-finishers' Annual Meeting

The first annual meeting of the Irish Photo-finishers Association was held in Dublin, recently, Mr. T. Cronhelm presiding. The secretary stated that there were about thirty large finishers in the Free State, some fourteen of whom resided in Dublin. After lengthy discussion a schedule of minimum D. and P. retail prices was agreed upon, and copies will be circulated to all dealers. It was agreed that recognised dealers would be given a maximum discount of 33½ per cent., with 2½ per cent. for monthly settlement. The finishers present agreed not to process films, or do any other work, for dealers selling below those minimum retail prices. Finishers or dealers obtaining higher prices in their areas were at liberty to maintain their price levels. It was decided to have a list of approved finishers completed and circulated through the P.D.A. and I.D.A. Instructions were also given to have cards printed with the new schedule of prices for the more popular sizes of films. The secretary intimated that he was in communication with paper manufacturers on the question of refusing to supply or open new accounts with pirate finishers. Chemist-dealers approached by any of these finishers are requested to inform the secretary of the Association.

## Belfast

Thos. McMullan & Co., Ltd., wholesale druggists, Belfast, have given a donation of £100 towards the Royal Victoria Hospital £100,000 Coronation Extension Fund.

A whist drive organised by the Belfast ladies' pharmacy committee was held in the Carlton Restaurant, Belfast, on January 26. Mr. Fred Storey, Ph.C., acted as M.C. Prize-winners were: *Ladies*, Mrs. Marshall, Mrs. Lavery, Miss Maureen Storey, Mrs. Robb (booby); *Gentlemen*, Messrs. Ferris, Hamilton, McCreight, and King (booby). The prizes were presented by Mrs. Storey (chairman of the committee), who carried out the arrangements with Miss Lavery (secretary). The Committee was composed of the Misses Murray, Forrest, Robinson, Barry, Crawford, Mrs. C. Abernethy, and Mrs. W. Martin. The stewards were Messrs. W. Tate, J. R. Guiler, J. T. Nicholl, C. Abernethy, J. McGregor, S. H. Forrest and W. Martin (all members of the Council of the Northern Ireland Pharmaceutical Society except Mr. Guiler). Those present included two members of the Belfast Corporation. Prizes were given by Mrs. W. Martin, Mrs. C. Abernethy, Messrs. W. J. Rankin, W. S. Taylor, A. Steede, R. I. Edwards, Mrs. Storey, Mrs. Swanston, Mr. Trivett, and by Evans Sons Lescher & Webb, Ltd. Miss Murray, Mr. Beggs, and Messrs. Shaw & Jamison supplied a large number of sweets for the evening's entertainment.

## Dublin

In the Dublin District Court, on January 27, Edward Brady, Thomas Doyle, Bernard Cashin and Benjamin Ridgeway, four young men in the employ of May Roberts & Co. (Ireland), Ltd., were remanded on bail on the charge of having stolen Aspro to the value of £85 4s. from the premises of Messrs. May Roberts & Co. at Grand Canal Quay, during November and December last. The four accused were further charged with conspiracy to steal the goods. Patrick Conlon, Marlborough Street, Dublin, was charged with receiving the property knowing it to have been stolen.

# Topical Reflections

By Xrayser

## Your Correspondence Section

in last week's issue was unusually striking. Nothing could be clearer than the letter of the trustees appointed by the late Sir Henry Wellcome to carry out his wishes regarding the Wellcome Foundation (p. 152); few fortunes, I imagine, have been devoted so wholeheartedly to the "improvement of the physical conditions of mankind." The work of the Foundation, after providing for the carrying out of what may be termed the more personal section of the will, is divided into (1) the "Research Undertaking Charity," and (2) the "Museum and Library Charity." Those who have been privileged to pay a visit to the Wellcome Historical Medical Museum when it was in Wigmore Street will have realised something of the extraordinary variety of the exhibits already collected; they can thus form some idea of the value of this part of the work of the Foundation. Your readers must also have studied with satisfaction the letter by the trustees of the Glyn-Jones Memorial Fund on the same page, and will be glad to know that an increased sum of money will be at their disposal for the next five years. The work already done would have gladdened the heart of Glyn-Jones, who had a hard struggle in his early years. His labours for pharmacy, particularly that for price maintenance, will not be forgotten.

## The Storage of "Dangerous" Drugs

is a matter which apparently depends on whether one is a person of no account, such as a pharmacist, or a member of the noble profession of medicine. Scarcely a week passes but we read in the papers, or hear by radio, that from a doctor's car has been taken a case containing supplies of "dangerous" drugs. This, to my mind, indicates a reprehensible carelessness on the part of the medical

man, but I have never come across any public reproof when a doctor is concerned. On the other hand, I see that recently a chemist was fined £5 for "having failed to keep 'dangerous' drugs in a locked receptacle." While not condoning the pharmacist's offence, I suggest that the authorities might be equally lynx-eyed in the realms of medicine and pharmacy. It was a little surprising to read in your last week's issue (p. 131) the reply of the Home Secretary to a question in the House of Commons on this topic: Sir John Simon (who, by the way, is the son of a medical man) seemed inclined to pooh-pooh the subject, and suggested that the number of cases reported was not very surprising considering the number of "skilled doctors" who are constantly travelling by road.

## The Short Note

by Dr. Ernest J. Parry on "Unscientific Expressions" (p. 135) would have given great satisfaction to the late Sir Clifford Allbutt, the author of that valuable little work "Notes on the Composition of Scientific Papers," first published in 1904 (third edition, 1923). In this, written from his experience as a reader of theses for medical degrees, he draws attention to the commoner mistakes made by students in expressing themselves; there is, for instance, a most illuminating chapter on "Precision," with illustrations. "Slovenly writing," he says, "is not only for the most part slovenly thinking, but slovenly habits of expression corrode the very substance of thought." A supplement to "The Lancet" on January 2 was devoted to hints to those who would wish to contribute to the pages of that paper, indicating how simplicity in expressing the thoughts of writers of scientific articles can be attained. Here are a few examples. For "aetiological factor" use "cause"; for "meticulous" use "careful"; for "commence" use "begin"; for "of a blue coloration" use "blue."



## Legal Reports

**Pharmacy and Poisons Act, 1933.**—At Wolverhampton Police Court, on January 29, New Universal Stores, Ltd., were fined 20s., with 13s. 6d. costs, for having a carbolic disinfectant without being registered.

At St. Albans, recently, four summonses against Frank Channell, Wheathampstead, in respect of a sale of belladonna plaster were dismissed on payment of costs on each summons.

At Lambeth Police Court, London, recently, Mr. Harold Chard, High Street, Peckham, S.E., Mrs. Nice, Chapel Road, West Norwood, S.E., and Mr. Francis Purslow, Henman's Road, S.E., were each summoned for various offences connected with illegal sales of scheduled poisons. The first two defendants were each fined 20s., with £3 3s. costs; the third defendant was ordered to pay £3 3s. costs and the summonses against him were dismissed under the Probation of Offenders Act.

At Brentford, recently, Platt's Stores, Ltd., Hounslow, and Reginald Burwell, Brentford, were each fined 10s. for having sold Jeyes' Fluid not duly labelled and for having sold it without being authorised or listed.

At Leicester County Police Court, recently, Alfred Cooper, Sidney W. Cooper and Millicent Cooper, trading as W. Cooper & Sons, Leicester, were summoned for having sold poison on premises other than specified. Inspector G. G. Powell gave evidence of purchasing a bottle containing poison from a van. When he pointed out to Alfred Cooper, who was in charge of the van, that the van was not registered for the sale of poisons, Cooper replied that the shop in Leicester was registered, and he understood it was not necessary to register the van. Millicent Cooper appeared on behalf of the firm, and said they had asked for a licence to cover the shop and the vans, and were not told the one they were given did not cover the vehicles. "Thousands of people must be in the dark about this," the defendant added. "It only came into force in May, and further information should be given." The case was dismissed on payment of costs.

## Business Changes

MR. CHARLES P. PRATT, chemist and druggist, has removed to 3 Market Square, Warwick.

MR. P. J. BROWN, chemist and druggist, 48 King's Road, Southsea, has closed the pharmacy at that address.

MR. J. FENTON MILNE, chemist and druggist, has taken over the 25 Friern Barnet Road, New Southgate, N.11, business of Harcombe Cuff, Ltd., chemists.

THE WASHINGTON CHEMICAL COMPANY (branch of Turner & Newall, Ltd.), have opened a Manchester office at 1 Booth Street, Albert Square, Manchester, 2. (Telephone: Deansgate 2765; telegraphic address: Pattprodur, Manchester.)

T. A. WHITE (PORTSMOUTH), LTD., have closed the Northleigh Pharmacy, London Road, Portsmouth, having sold the premises. Prescription-books have been acquired by H. A. Elliston (Chemists), Portsmouth, Ltd., 73 London Road, Portsmouth.

## Gazette

### Bankruptcy Acts

#### RECEIVING ORDER

WHITE, R., 233 Bristol Street, Birmingham, chemist.

HICKEY ON HASLAM.—"Haslam, ex-grocer, strict sabbatarian, is a Bolton man. He is proud of Lancashire. He expressed this pride once in a speech at Liverpool. He said, 'We Lancashire folk . . . This was a brick. For Liverpool men do not consider themselves to be as other Lancashire men are. . . . This helps to explain Haslam's reputation for opening his mouth and putting his foot in it.'"—Mr. William Hickey in "The Daily Express."

## New Companies and Company News

P.C. means Private Company and R.O. Registered Office

NEO-SPECIFICS, LTD. (P.C.).—Capital £100. Objects: To carry on business as manufacturers of and dealers in chemicals, drugs, disinfectants, etc. R.O.: 28 Lincoln's Inn Fields, W.C.2.

CROMAC MEDICAL HALL, LTD. (P.C.).—Registered in Belfast. Capital £100. Objects: To carry on the business of chemists, druggists, etc. The first directors are not named. R.O.: 12 Cromac Street, Belfast.

FEATLY PRODUCTS, LTD. (P.C.).—Capital £250. Objects: To carry on business as manufacturing chemists and druggists, etc. Anthony J. Borin, M.A., B.Sc., 34 Campbell Road, Bow, E.3, director. R.O.: 36 Duke Street, St. James's, S.W.1.

DEPILLO, LTD. (P.C.).—Capital £1,000. Objects: To acquire patents connected with the production of chemicals of all kinds, toilet preparations, etc. Martin Kelston, 10 Guilford Place, W.C.1, director. R.O.: 8 St. Martin's-le-Grand, E.C.1.

FRANCIS F. FOX & Co., LTD. (P.C.).—Capital £30,000. Objects: To carry on the business as manufacturers, distillers and dealers in oils of all descriptions, greases, tallow, tar, manufacturing chemists, etc. Thomas H. Butler, "Chartley," The Avenue, Sneyd Park, Bristol; Eric W. Butler, The Old Holt, Downleaze, Bristol; Archibald T. Jefferies, Jasmin, Owen Grove, Westbury-on-Trym, Bristol, directors.

LANALOL, LTD. (P.C.).—Capital £800. Objects: To acquire the goodwill of the business of manufacturing and dealing in perfumery, including toilet articles, preparations for the teeth and hair, and perfumed soap, and the trade mark "Lanalol" used in connection therewith, and to adopt an agreement with Alfred Mair, Ltd. The first directors are to be appointed. Solicitors: Slaughter and May, 18 Austin Friars, E.C.2.

UNITED GELATINE MANUFACTURERS, LTD. (P.C.).—Capital £2,000. Objects: To adopt an agreement with Societe des Produits Chimiques Coignet, S.A., and Societe Gelatines de Hyon, S.A., to carry on the business formerly carried on by Anthony Waldegrave Carter, and to carry on the business of manufacturers and/or dealers in gelatines, glues and derivatives, etc. The first directors are to be appointed. Solicitors: Gilbert Samuel & Co., 6 Great Winchester Street, London, E.C.2.

MEDICAL RESEARCH COUNCIL OF SAORSTAT EIREANN.—The word "Limited" being omitted by licence of the Minister for Industry and Commerce. Registered in Dublin as a company limited by guarantee, without share capital. Objects: To organise and carry out research in all or any branches of medicine and sciences or subjects pertaining thereto. The directors are: Joseph Warnick Bigger, "Ardriagh," Temple Road, Dublin (Professor of Bacteriology, Trinity College, Dublin); Thomas Gillman Moorehard, 23 Upper Fitzwilliam Street, Dublin (consulting physician); John McGrath, 33 Fitzwilliam Square, Dublin (professor of medicine); William John Edward Jessop, Castle Park, Rathfarnham, Dublin (Professor of Physiology, Royal College of Surgeons); James M. O'Connor, 7 Palmerston Villas, Rathmines, Dublin (Professor of Physiology, University College, Galway); James O'Donovan, 26 Wellington Road, Cork (Professor of Medicine, University College, Cork); Henry Moore, address not stated; J. F. Donegan, address not stated.

JOHNSON & SONS MANUFACTURING CHEMISTS, LTD.—In the Chancery Division Mr. Justice Crossman confirmed a reduction of the capital of this company from £200,000 to £179,150. Mr. C. A. Settle, for the company, stated that the capital was divided into 100,000 8 per cent. preference shares of £1 each, of which 40,003 had been issued, and 100,000 £1 ordinary shares, of which 41,700 had been issued. The whole of the loss of £20,850 was being thrown on the ordinary shares. It was proposed to write down the issued ordinary shares by 10s. each. In consideration of this the holders of the preference shares, whose dividends had been in arrears since 1920—and amounted to about £54,400—were waiving their rights to these arrears.



The company had not made a profit for the last twenty years. The reduction formed part of a capital reconstruction scheme under which the capital would be increased to the original figure in shares of 5s. each.

**GENATOSAN, LTD.**—Interim dividend of 15 per cent. declared on the ordinary shares, payable February 8, on account of the year ending June 30, 1937 (the same).

**COMPANIES DISSOLVED.**—Notice has been given in "The London Gazette" that the names of the under-mentioned companies have been struck off the register and the companies dissolved: Liptons Germicide Co., Ltd.; Mackavovs (Chemists), Ltd.

### Private Arrangements

**Wilsons (Bolton) Ltd.**, 224 Deane Road, Bolton, chemists. At the meeting of the creditors of the above the statement of affairs showed liabilities of £157 10s. 2d. The assets totalled £85 15s. 8d., or a deficiency of £71 14s. 6d. The company was registered on July 2, 1935, with a nominal capital of £500, of which £175 had been issued and was fully paid. The business had now been closed down and there appeared to be no other course but to realise the assets. The opinion was expressed that the company should be voluntarily wound up with Mr. W. R. Brown, of Messrs. Brown & Meadows, accountants, Wigan, as liquidator.

**A. E. Worthington**, Hamilton Pharmacy, Marton Drive, Blackpool, chemist. The creditors were called together recently at the Exchange Hotel, Manchester, when the statement of affairs showed ranking liabilities of £983, made up as follows: trade creditors, £448; cash claims, £505; and bankers, £30. After allowing £85 for preferential claims the net assets were £265, or a deficiency of £718. It was reported that the debtor commenced the business in December 1931. The deficiency was attributed to losses on the trading for the whole period, amounting to £743. A resolution was passed confirming the deed of assignment already executed to Mr. J. D. Hamer, whilst a committee was also appointed. It was stated that the business would be continued with a view to a sale as a going concern being effected.

### Voluntary Liquidation

**Standard Drug Stores, Ltd.**, 122 Church Street, Stoke Newington, London, N.16. The statutory meeting of creditors was held recently at the Holborn Restaurant, London, W.C., when a statement of affairs was submitted which showed ranking liabilities of £1,158 12s. 10d., made up as follows: trade creditors, £470 10s. 9d.; loan creditors, £236 0s. 5d.; and amount due to Mr. B. Dutta, a director of the company, £452 1s. 8d. After allowing £23 16s. 3d. for preferential claims the net assets were £116 17s. 7d., or a deficiency, so far as the creditors were concerned, of £1,041 15s. 3d. The issued capital of the company was £100, and as regarded the shareholders there was a deficiency of £1,141 15s. 3d. It was reported that the company was formed in September, 1926, and took over a business which had been carried on by Mrs. Dutta since May, 1925. It was decided that the meeting should be adjourned.

### Bankruptcy Report

**Re Frederick Charles Lindsay-Bliss**, carrying on business as Lindsay-Bliss & Co., 50 Queen Street, Newton Abbot, and 121 Fore Street, Exeter, health food specialist. The first meeting of creditors was held at the Official Receiver's office, Exeter, when a statement of affairs was submitted showing gross liabilities of £831 5s. 11d., of which £751 0s. 11d. was expected to rank for dividend. There were net assets of £2 11s. 2d., or a deficiency of £748 9s. 9d. Debtor said his failure was due to insufficient ready capital to develop a new business, and heavy overhead expenses; withdrawal of capital by partner on dissolution; taking on too much in an attempt to retrieve the situation; and breakdown in health. The case being a summary one was left in the hands of the Official Receiver, as trustee.

## Stock Exchange Prices

£1 shares unless otherwise stated	Dec. 31, 1935	Dec. 31, 1936	Jan. 29, 1937
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord. ....	23 9	26 3	27 0
Amalg. Dental Co., 8% Prefd. Ord. ....	26 3	27 6	27 3
" " Deferred £1 ... ..	9 0	18 6	18 6
Aspro, Ltd. ... ..	20 0	18 9	20 3
Ayrton, Saunders & Co., 7½% Pref. ....	23 6	25 0	25 0
Beechams Pills, Deferred 5s. shares ....	39 9	63 0	62 0
Benger's Food, Ord. ... ..	40 6	38 0	38 0
Benzol & By-Products cum. part. Pref. ....	1 9	6 3	8 3
Berger (Lewis) & Sons, Ord.... ..	66 3	73 1½	75 9
Blundell Spence & Co. ... ..	18 0	22 0	22 0
Boake (A.), Roberts & Co., 5% Pref. ....	20 0	22 0	22 0
Boots Pure Drug, Ord. 5s. shares ... ..	49 6	60 0	59 9
Boots Pure Drug, 7% "A" Prefd. Ord. ....	32 0	33 3	33 3
Boots Cash Chemists (S.), 6% "A" Pref. ....	28 10½	29 0	29 1½
Borax Consol., Dfd. Ord. ... ..	20 9	35 6	35 9
Bovril, Ord. ... ..	27 3	27 3	29 9
" Dfd. ... ..	18 1½	24 3	25 1½
British Industrial Plastics (formerly British Cyanides), Ord., 2s. shares	3 1½	3 1½	3 1½
British Drug Houses, The, Ord. ....	18 0	21 9	21 6
British Glues & Chemicals, 4s. Ord. ....	7 7½	9 10½	10 10½
British Oil and Cake Mills, Prefd. Ord. ....	48 9	48 6	48 6
British Oxygen, Ord. ... ..	113 9	120 0	135 0
British Photo. Indus., 6% Cum. Pref. ....	3 0	4 0	4 4½
Burt, Boulton & Haywood, Ord. ....	19 6	24 9	24 0
Bush (W. J.) & Co., 5% Pref. £5 ... ..	108 9	110 0	107 6
Callard, Stewart & Watt, Ord. ....	3 3	12 0	12 3
Cooper, McDougall & Robertson, Ord. ....	38 9	37 0	38 0
Crosfield (Joseph) & Sons, 6½% Pref. ....	31 9	28 9	28 9
Dubarry Perfumery, Ord. 1s. ....	5 10½	3 4½	3 1½
" 7½% Pref. ....	26 6	26 3	26 7½
Eno Propriet'y, Ord. 5s. ....	9 6	8 10½	8 6
Evans Sons Lescher & Webb, Ord. 6s. 8d. shares	4 3	5 3	5 6
" 6% cum. part. Pref. ....	7 6	8 3	8 3
Field (J. C. & J.), Ord. ....	25 0	27 6	27 3
Galloway (P.H.), Ord. 2s. ....	3 7½	3 6	3 7½
" 7½% Cum. Pref. ....	26 6	26 6	27 3
Genatosan, Ltd., 1s. ....	7 6	6 4½	6 3
Gossage (William), 6½% Pref. ....	29 6	29 0	28 6
Greeff-Chemical H'dings, Cum. Pref. 10s. ....	—	11 9	11 7½
" Ord. 5s. ....	—	9 6	10 6
Griffiths Hughes (Kruschen) Ord. ....	57 6	47 6	44 3
Grout & Co., Ord. ....	25 0	19 6	19 3
Hodders, Ord. 1s. ....	0 4½	0 10½	1 0
Ilford, Ltd., Ord. ....	26 3	28 9	28 3
" 6% Pref. ....	26 3	26 9	25 6
Imperial Chemical, 7% Pref. ....	33 9	35 0	32 3
" Ord. ....	37 0	41 6	40 6
Intern. Sponge Importers, 6% Pref. ....	8 6	8 9	10 0
Kent (G. B.) & Sons, 5½% Pref. ....	3 0	2 6	3 0
Knight (John), 25% Prefd. Ord. ....	101 3	107 6	97 6
Laporte (B.) & Co., Ltd., Ord. ....	116 3	123 9	126 3
Lever Bros., Ltd., 7% Pref. ....	32 3	33 6	30 6
" 8% Pref. ....	33 6	34 9	32 6
" 20% Prefd. Ord. £1 ... ..	77 6	78 0	77 9
Lewis & Burrows, Ord. ....	21 3	24 0	24 9
" 6% Pref. ....	21 3	22 6	22 6
Liebig's Ext. of Meat, Ord. £5 ... ..	£14½	£17½	£18½
Macleans 6% Red. Pref. ....	21 3	23 1½	23 0
Mellin's Food, 6% Pref. ....	1 0	2 6	2 3
Nathan, J. (Glaxo), 7% Pref. ....	24 6	25 7½	25 1½
" " 8% Prefd. 10s. ....	15 0	13 6	13 9
" " Ord. 1s.... ..	5 0	7 9	8 3
Pears (A. & F.), 5% Deb. £100 ... ..	£112	£110	£110
Reckitt & Sons, Ord. ....	115 0	115 0	113 9
Salt Union, Ord. ....	44 6	45 3	45 3
Sangers, Ord. 5s. ....	23 3	28 6	27 6
" Sanitas," The, Co., 9% Pref. ....	32 6	32 0	30 6
Sanitas Trust, 10% partic. Pref. ....	30 0	30 0	30 9
Smith (Stephen) & Co., Ord. 5s. ....	12 9	10 9	11 0
Spratt's Patent, Ord. ....	76 0	67 0	65 0
Stevenson & Howell, 6½% Cum. Pref. ....	26 3	27 0	26 6
United Glass Bottle Man., Ord. ....	44 9	50 6	50 6
Veno Drug Co., 8% Pref. ....	27 0	27 9	25 9
Virol, Ltd., Ord. ....	28 9	28 9	28 9
" 7% Pref. ....	25 6	25 6	25 6
White (A. J.), Ltd., Ord. 10s. ....	21 0	21 6	20 7½
White (Timothy) & Taylors, 7½% Pref. ....	30 9	31 9	30 3
" Ord. 5s. ....	22 6	34 6	33 0
Woodlands Chemists, Ord. 5s. ....	2 9	1 6	1 3
Wright, Layman & Umney (1932), 7% cum. Pref. ....	22 6	23 9	22 6



# Pharmaceutical Society of Great Britain

## Special General Meeting

SINCE the test case of Jenkin versus the Pharmaceutical Society of Great Britain in 1920 there has probably been no such historic occasion—or, at any rate, none on which ordinary members of the Society were privileged to be present—as that of last Wednesday morning, when prior to the usual monthly meeting of the Council the Society met in the lecture theatre at 17 Bloomsbury Square, W.C.1, for the purpose of approving of and concurring in a mortgage in respect of its new property in Brunswick Square. The president (Mr. Thomas Marns), the treasurer (Mr. E. T. Neathercoat) and the secretary (Mr. H. N. Linstead) sat at the table; the members of the Council present in the audience were Messrs. Atkinson, Culbert, Hirst, Jack, McNeal, Melhuish, Peck, Rowsell and Young; in addition, there were three Press representatives and about six other people, including Mr. H. Treves Brown, Dr. David Hooper, Dr. Joseph Tait (resident secretary in Scotland) and Mr. W. M. Tims.

The secretary read the convening notice, with its time-honoured legal phrases, "messuage lands tenements and hereditaments," "outbuildings and appurtenances thereunto respectively belonging" and the rest; the way was then clear for the treasurer to move the resolution of approval and concurrence. Mr. Neathercoat has never spoken more concisely than on this occasion; and Mr. Melhuish, in seconding, was equally relevant to the purpose of the meeting. When the president gave leave for discussion, most of those present were prepared for pungent remarks from Mr. Tims, the spear-head of opposition at Bloomsbury Square for several years past; and it was somewhat of an anticlimax when Mr. Tims, speaking from his own financial experience, said he was persuaded that the proposed step was a wise one. There was, it appeared, nothing more to be said, and with a unanimous vote the proceedings came to an uneventful close in less than fifteen minutes.

## THE SPEECHES

The secretary having read the notice convening the meeting,

THE TREASURER (Mr. E. T. Neathercoat) said the Council of the Society had adopted a far-sighted policy, and had most wisely and prudently given consideration to provision for the Society's fast-growing activities. Some of the Society's present leases were rapidly running out. They were proposing to build on the new site not a stately palace, but such a structure as would worthily and adequately meet the requirements of the future. The financial arrangements had been the subject of the most careful consideration by the Finance Committee and the Council. The Society was able to provide a large proportion of the cost out of its own resources, the remainder being provided on a sound financial basis by mortgage loan. Only the assets set out in the notice were the subject of the mortgage charge; nothing else was concerned. The Charter stipulated that a sale or mortgage of any real estate proposed by the Council must be approved by a meeting of members of the Society. He moved the approval and concurrence of the meeting.

MR. A. R. MELHUISE, in seconding, referred to his own contact with the grave disabilities of the Society's present building. They were going on from month to month expending sums for keeping these old premises up to date as far as they could. It was a question of the efficiency of the whole work of the Society.

THE PRESIDENT announced that the meeting was open for discussion.

MR. W. M. TIMS said he was persuaded that this was a wise step on the part of the Society. The present buildings were never intended for the purposes of a society of this size. His experience was that it was wise to spend for the future.

The resolution, on being put from the chair, was carried unanimously.

## Council Meeting

THE large proportion of failures at examinations was discussed at the February meeting of the Council of the Pharmaceutical Society of Great Britain, held at 16 Bloomsbury Square, London, W.C.1, on February 3. Mr. Thomas Marns (president) occupied the chair, and at the outset stated he had received apologies for absence from Sir Humphry Rolleston and Professor Gunn.

## TUESDAY'S PROCEEDINGS

Among the business transacted by the Council on February 2 were the following items:—

A letter was received from the secretary of the Sheffield Branch suggesting that sessions should be provided for the representatives' meetings at Conferences on Tuesday morning and afternoon and on Wednesday morning and, if required, Wednesday afternoon. The proposal was referred to the Organisation Committee.

A letter was received from the secretary of the Leeds Branch forwarding three resolutions:—(1) "That a small retention fee for non-practising pharmacists be instituted as a concession." (2) "That the provision making it unnecessary for N.H.I. prescriptions for Fourth Schedule substances to be copied should be extended to public health service prescriptions." (3) "That the time is ripe to again seek for commissioned rank for pharmacists in the Navy, Army and Air Force." The secretary was instructed to send certain replies.

A letter was received from the Cambridge and District Branch asking "That the Council should suggest that the Publications Committee consider refusing all advertisements of window show bonns terms by non-C.F. firms." The letter was referred to the Publications Committee.

The Council considered revised plans for the new headquarters building in consultation with the architect and in the light of the report from the Establishment Committee, by which they had been considered in detail. After discussion the following recommendation of the Establishment Committee was carried unanimously:—"That, subject to alterations in detail, the referred to the Publications Committee."

## DEATHS

THE PRESIDENT, at the outset of the proceedings on February 3, made sympathetic reference to the deaths of Professor David Ellis and Mr. E. W. Gongh.

## NEW YEAR HONOURS

THE PRESIDENT referred to the honours conferred upon Dr. Le Fleming and Mr. Cecil Freke, son of Mrs. Freke, who for several years had been a member of the Council.

## REGISTRATION ITEMS

Forty-six persons were elected as student-associates, and twenty-one persons were restored to the Registers of Pharmaceutical Chemists and Chemists and Druggists. The registrar reported that fifty persons had been registered as apprentices or students.

## REGISTRAR'S REPORT

The registrar submitted his report for the year 1936. The following summary includes the chief features:—

The number of apprentices or students registered is 723 (1,097 in 1935). The examinations in London for the year show the following figures:—Pharmaceutical Chemist, 114 candidates, of whom 55 were successful (in 1935 the respective numbers were 89 and 36) and 8 passed as chemists and druggists (9 in 1935); Qualifying, 849, of whom 295 passed (in 1935 the corresponding numbers were 821 and 299). In Edinburgh there were 17 candidates for the Pharmaceutical Chemist, of whom 11 were successful (in 1935 there were 6 successful candidates out of 15 entrants; for the Qualifying, 386 candidates, of whom 197 passed (in 1935 the numbers were 366 and 186 respectively). Candidates for examination in referred subjects are not included in these figures (241 out of 321 passed in London, and 88 out of 102 in Edinburgh). The



number of pharmaceutical chemists on the Register on December 31, 1936, was 1,468, and of chemists and druggists 21,509, a total of 22,977. (In 1935 the respective numbers were 1,440, 20,988 and 22,428). The register of superintendents of bodies corporate in Great Britain, and of firms or partnerships in Scotland, contains 1,920 names (1,854 in 1935). In 117 cases of alleged infringement of the Pharmacy Acts proceedings were instituted (108 in 1935). The number of shops inspected with a view to ascertaining whether a certificate of qualification was exhibited was 9,538 (6,406 in 1935), and 4,106 "drug stores and other shops" were visited (3,398 in 1935), as well as 294 listed sellers inspected on behalf of local authorities.

THE REGISTRAR called attention to some of the figures. The Council, he said, would notice that the number of apprentices or students registered in 1936 was only 723, against 1,097 in the previous year, and there was a decrease of 200 in the number of student-associates. There was an increase of names on the Register of 549 compared with the previous year. The number of superintendents had increased by 100, and it was notable that under the new proceedings the Courts were inflicting fines which were quite comparable to those under the old procedure. With regard to inspections it would be seen that 300 shops had been visited officially on behalf of local authorities.

#### RETIRING COUNCILLORS

THE PRESIDENT reported that the following members of the Council would retire in May next:—Antcliffe, Herbert; Atkinson, John Wilson; Beardsley, Wm. James; Culbert, Wm. Spence; Marns, Thomas; Peck, Ernest Saville; Skinner, Herbert.

#### CONGRATULATIONS TO VETERANS

MR. PARRY pointed out that he had looked through the Society's Registers, and had found only two names of members who had been associated with it since 1868. They were Mr. Thomas Jones, Oakhurst Road, Oswestry, and Mr. Arthur Richard Loten, of Westdale House, Hull. He suggested that the Council should send congratulations to these members, on having been associated with the Society ever since it received statutory recognition. The Council concurred with the suggestion.

#### EXAMINATION FAILURES

MR. McNEAL, commenting on the examinations, pointed out that of the 131 persons who had entered on one occasion only twenty-one had passed, sixty-eight had failed and thirty-eight were referred.

MR. PARRY said that the matter had been considered repeatedly, and the Council had found that there was no reason to take any action.

MR. McNEAL said he noticed the subjects in which candidates failed were chemistry and botany, and he wondered why the failures occurred in such important subjects.

#### GREETINGS

THE PRESIDENT reported that New Year greetings had been received from pharmaceutical officials and organisations in New South Wales, Queensland, France and Belgium.

#### CORRESPONDENCE

The Privy Council wrote approving of the amendment of By-law 17, which permitted examiners to require as a condition of re-entry that a candidate should have attended a further course of instruction.

MR. MELHUISE said it was an ordinary by-law which necessitated that very weak candidates or those who had concentrated on two subjects should take a further course of instruction if they were shown to have little or no knowledge of the subject for which they had submitted themselves for examination.

MR. ROWSELL pointed out that the Council was discussing a matter which had been referred to the Education Committee. The matter was then dropped.

#### BENEVOLENT FUND

The report of the Benevolent Fund Committee showed that fourteen applications had been received and grants made ranging from £15 to £39.

MR. ANTCLIFFE drew attention to the contribution of £25 from Mr. H. E. Curtis, explaining that he wished to commemorate his fifty years in pharmacy. He suggested that the

Council should congratulate Mr. Curtis on attaining his jubilee, and the suggestion was adopted.

#### WAR AUXILIARY BENEVOLENT FUND

The report of this committee showed that three applications had been considered, and grants made ranging from £10 to £39.

#### EDUCATION COMMITTEE

The report of the Education Committee, presented by Mr. ROWSELL, stated that the Committee considered a report from the examiners concerning the date when candidates should first be expected to have a knowledge of the subject-matter of the Addendum, 1936, to the British Pharmacopœia, 1932. The Council concurred with the examiners' proposal not to examine upon the subject-matter of the Addendum until the July 1938 Chemist and Druggist Qualifying and Pharmaceutical Chemist Qualifying examinations.

A report was received from the chairmen of the examiners' panels for the Preliminary Scientific examination stating that among candidates who presented themselves for the first time for examination in January 1937 there were several who showed that they had little, if any, knowledge of one or more of the subjects. The Committee decided to communicate with the schools concerned.

Among other matters, the report showed that the Committee had approved the conditions in the dispensary of a hospital for the purpose of students wishing to undergo a practical course of study, and had granted two applications for concessions in respect of the examination regulations.

#### FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £3 4s. 2d., amounted to £28,113 5s., comprising the following items:—Retention fees, £13,811 3s. 6d.; premises fees, £10,038; subscriptions, £214 14s. 6d.; College—School of Pharmacy, £95 3s. 4d.; College—Pharmacological Laboratories, £472 16s.; College—University Grant, £162 10s.; registration fees, £119 14s.; restoration fees, £10 10s.; Register correction service, £14 3s. 6d.; examination fees, £4 4s.; penalties and expenses, £75 9s. 6d.; interest, £37 1s. 1d.; rentals, £245 19s. 5d.; "Pharmaceutical Journal," £1,561 14s. 8d.; Pharmaceutical Press, £1,169 15s. 3d.; F.S.S.U. contributions, £27 8s. 3d.; insurance commission, £38 13s. 10d.; sundries, £11. Payments at the last meeting amounted to £5,705 6s. 9d., and £22,400 had been transferred to deposit account, leaving a balance of £7 18s. 3d. The balances on the other accounts were:—Benevolent Fund (current account), £43 12s.; Benevolent Fund (donation account), £26 5s. 4d.; War Auxiliary Benevolent Fund, £116 13s. 4d.; Hills Orphan Fund, £7 8s. 8d.; Orphan Fund, £8 5s. 6d. Accounts amounting to £13,797 3s. 11d. were passed for payment, and the action of the secretary in making payments amounting to £2,089 13s. 4d. was approved.

THE PRESIDENT drew attention to the Coronation dinner of the Society to be held in Guildhall on April 6, and said it was hoped there would be a number of distinguished guests from Continental countries and the United States as well as from the City of London.

#### LAW COMMITTEE

The report of this Committee, presented by Mr. BEARDSLEY, showed that in England, Scotland and Wales 1,085 chemists' shops, eight listed sellers and forty-seven drug store proprietors, grocers and similar traders had been visited by the Society's inspectors during the past month. It also showed that 246 drug stores and other premises had been visited by the Society's agents during the past month.

STOKE-ON-TRENT City Council has decided to make a further concession to traders during the Coronation celebrations with regard to electricity for special display purposes.

"BRITISH JOURNAL PHOTOGRAPHIC ALMANAC."—The 1937 edition of this well-known publication contains a number of articles of considerable interest to photographic dealers, among others "Solving the Abnormal Exposure Problem," "Mounting, Framing and Display of Photographs," "Choosing Apparatus for Substandard Photographs." There is also the usual epitome of progress, reviews of new goods, formulas and miscellaneous information. There has again been included sixty-four gravure pictures, representative of the new work of leading photographers. The almanac is published by Henry Greenwood & Co., 24 Wellington Street, Strand, London, W.C.2, price 2s.



# National Pharmaceutical Union

## Executive Meetings

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on January 26, Mr. D. A. Bryan in the chair.

### DEATH

THE CHAIRMAN, before commencing the business, referred to the heavy loss which the Executive had sustained in the death of Mr. Gilleghan, who had been one of the original members of the Executive and during the whole of the time had been such an enthusiastic worker that his loss would be severely felt in the Executive. Not only had the Union lost one of its most powerful supporters, but they all had lost a personal friend. A resolution of condolence was directed to be sent to the widow and family.

### CHEMISTS' FRIENDS COMMITTEE

The Executive adopted various recommendations in connexion with the working of the C.F. movement, including suggestions to manufacturers that they include in their advertisements helpful slogans such as "Ask your chemist" or "Buy medicines from chemists"; also that wholesalers should mark C.F. items in their price lists.

### SPECIAL EDUCATION COMMITTEE

This Committee, dealing with a *questionnaire* issued by the Pharmaceutical Society, recommended the inclusion of business methods, first aid and elementary therapeutics in the course of training for pharmacists, and also suggested that greater attention should be given to the recognition by physical characteristics of medicines and drugs. The Committee also recommended the institution of one qualifying examination only, that of Pharmaceutical Chemist. Special attention was also drawn to the fact that it was possible in the course of training to include subjects which need not necessarily be examination subjects in the full sense of the word. The Committee's recommendations were adopted.

### CENTRAL N.H.I. COMMITTEE

This Committee reported that it had considered a suggestion made by the Ministry of Health for the introduction of a new section into the N.H.I. tariff which would include drugs and appliances which need not be kept in stock and to which the reduced fee did not apply. The Committee recommended that a final decision in regard to the matter be deferred until a list of the items in question was available. The Committee also considered a suggestion from the Ministry of Health to add a special wound dressing to the list of prescribed appliances, and recommended that more information be sought from the Ministry regarding the proposal.

The attention of the Committee was directed to difficulties arising in connexion with the pricing of intravenous injections and other preparations of a similar character, but it was decided that in the present circumstances of the drug fund no action be taken.

A letter was received from the Ministry of Health stating that owing to complaints regarding the standard of the hypodermic needles in the Tariff it was considered desirable to insert a specification. Particulars of the specification were submitted and approved by the Committee subject to the specification not being compulsory until after July 1.

Various other matters of an administrative character in regard to the drug fund and investigation of prescribing were reported on by the Committee.

### MARKETING AND TRADE PRICES COMMITTEE

This Committee reported that it had dealt with a variety of matters, including direct sales to the public by a manufacturer, staff clubs and chemists' advertisements.

### PARLIAMENTARY TOPICS

The Executive considered the following Parliamentary matters:—The Hairdressers' Registration Bill; the Shops Retail Trading Safeguards Bill; the Trade Marks Amendment Bill (1935); the Ministry of Labour's activities in connexion with the wages, hours and conditions in the distributive trades. A report was also received from the secretary regarding the

medicine-stamp duty inquiry. He also reported that the organisation meetings which were being held in support of the Chemists' Friends movement were extremely encouraging.

### C.D.A. Matters

The secretary reported that of the twenty-one cases outstanding from the last meeting of the directors, four might be considered closed, and four had been settled as follows:—Liquor atropinae sulphatis dispensed full strength; claim settled by payment of £85 3s. 6d. Injuries caused after dressing for wasp sting; claim settled for £23 3s. Injuries caused by falling sign; claim settled for £4 9s. 9d. Damage caused by cycling errand-boy; claim settled for £1 6s. 6d.

Thirty-two new cases had arisen; settlements had been made in respect of fifteen of these cases:—Lambs died after administration of carbon tetrachloride; claim settled for £16 5s. Lin. camph. supplied; claim settled for £1 5s. Mist. pot. brom. dispensed; claim settled for £3 3s. Solution of ammonia supplied; claim settled for £10. Accumulator damaged by spirit; claim settled for 6s. Clothing torn on nail; claim settled for 12s. 6d. Injuries caused by fall on step; claim settled for £4 5s. Damage to clothing by nitric acid; claim settled for £1 5s. Damage by cycling errand-boy (two cases); claims settled for £1 18s. 6d. and 19s. 6d. respectively. Injuries to foot caused by hole in pavement; claim settled for £2. Damage to clothing by liquid paraffin; claim settled for 9s. Injuries caused by fall outside premises; claim settled for £1. Damage to clothing by gas fire (two cases); claims settled for 5s. and 4s. 6d. respectively.

The secretary reported that three members had been defended in respect of summonses under the Food and Drugs (Adulteration) Act; that three members had been defended in respect of prosecutions under the Dangerous Drugs Act; that two summonses had been issued against a member for selling wine out of permitted hours; and that two members had been defended in respect of summonses for non-payment of advertising charges.

## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### ENGLAND AND WALES

**Hull.**—The National Formulary and the Hull Formulary, which are in use at present in Hull, will be used concurrently during 1937, prescriptions being marked "H.F." or "N.F." according to the formulary used. After 1937 the Hull formulary will be discontinued, thus bringing Hull into line with the rest of the country.

**Lancashire (Area No. 4).**—The report of the Prescription Bureau for the quarter ended September 1936 shows that prescriptions dispensed numbered 544,230, against 518,765 for the corresponding period of 1935, and 497,063 for 1934. The costs of ingredients and dispensing for the three periods were:—Ingredients, 1936, £8,775; 1935, £8,059; 1934, £7,650; dispensing, 1936, £9,868; 1935, £9,427; and 1934, £9,041. The average cost per prescription was 8.22d., against 8.09d. in 1935 and 8.06d. in 1934; the average total cost per insured person was 9.44d., against 9.05d. in 1935 and 8.60d. in 1934. Westmorland had the highest total cost per prescription (9.89d.), followed by Blackburn (8.51d.) and Rochdale (8.45d.). The town with the lowest average was Barrow (7.62d.), followed by Burnley (7.96d.) and Bolton (7.97d.).

**West Ham.**—The analyst's report on a test prescription in which there was found a deficiency of 20.5 per cent. of one ingredient was considered at a recent meeting of the Insurance Committee. The representative of the chemist concerned had appeared before a subcommittee. He stated that he was a qualified pharmacist, had been at the establishment for only one week, and had dispensed the ingredient concerned from a solution made by his predecessor. He also stated that he realised the undesirability of dispensing the ingredient from solution, and undertook not to do so in future. The subcommittee recommended a fine of £1. The committee agreed.



# Trade Notes

**T. & H. SMITH, LTD.**—Owing to a typographical error the Edinburgh works of T. & H. Smith, Ltd., were wrongly described on the front cover of our issue of January 30. Messrs. Smiths' Edinburgh works are known as Blandfield Chemical Works and not as stated.

**AT THE B.I.F.**, where **THE CHEMIST AND DRUGGIST** has a stand, we have arranged to have a telephone installed, the number of which is Fulham 9739.

**DIARY CORRECTIONS.**—The following corrections should be made in *The Chemist and Druggist Diary, 1937*:—

**ARIS PHOTOGRAPHIC SERVICES**, 37 Denmark Road, Winton, Bournemouth. The correct folio number for their Diary advertisement is 262.

**JOHN BELL, HILLS & LUCAS, LTD.** The name of this company should be inserted in the Buyers' Guide section under the heading of Dr. Lynwoods' Brand Cough Balsam.

**PHILIP WHIPMAN, LTD.**, Seven Star Alley, 80-81 St. George's Street, London, E.1: The name of this company should appear under Styra in the Buyers' Guide section.

**A STORY IN SHOWCARDS.**—Eucryl, Ltd., Southampton, have produced a set of three new cut-out showcards to promote sales of Eucryl tooth powder through retail chemists. The cards



depict a connected story, but they can also be shown separately with good effect. Special rates are available when Eucryl tooth powder is bought on window display terms. Retail chemists will receive a set of these cards on request.

**KEPLER SHOWCARD.**—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, have recently issued a new showcard in colour to assist the sales of Kepler malt extract for both mother and child. The showcard measures 10 in. by 15 in., and chemists who wish to use the card will receive a specimen free on request by quoting number 0975.

**GLAZO MANICURE PREPARATIONS.**—Glazo, Ltd., 217 Bedford Avenue, Trading Estate, Slough, Bucks, have announced a reduction in price of their manicure products to the public commencing on April 1, but from February 1 all goods have been invoiced at the reduced rate. Full particulars of a special bonus offer will be sent on application to Eucryl, Ltd., Southampton, who are the distributors.

**FACE CLOTHS.**—A new inexpensive Dawn face cloth in assorted colours has just been issued by Jacquesil Fabrics, Ltd., 105/107 Princess Street, Manchester; London agent: G. H. Bolton, 28 Falcon Square, Aldersgate Street, E.C.1. These face cloths are issued in cartons of two dozen and fitted with a transparent lid. Supplies are obtainable through the usual wholesalers.

**FOOT COMFORT.**—The Scholl Manufacturing Co., Ltd., 182-194 St. John Street, London, E.C.1, have recently published a brochure on foot comfort and the scientific correction of ailments of the feet. This brochure presents a dissertation on everyday foot conditions and their treatment, giving at the same time an interesting and comprehensive catalogue of numerous Scholl products introduced for the treatment and relief of foot troubles. This booklet will be sent to chemists on application.

**ANTI-CATARRHAL BALM.**—Stephen Matthews & Co., Ltd., 19 Farringdon Street, London, E.C.4, issue Stemat anti-catarrhal balm which is described as a non-irritant germicide for the prompt and effective treatment of all catarrhal infections. This product is issued in a tube with special nozzle attachment, and is packed in the cardboard container illustrated herewith.



**ERASMIC VANISHING CREAM.**—A new pack of Erasmic vanishing cream in opal glass by The Erasmic Co., Ltd., Warrington, has just been issued. Its introduction will be the subject of a separate advertising campaign which will appear in special media appealing to women. Further details of interest are given in our advertisement pages.

**THE B.P. ADDENDUM.**—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have issued a guide to the 1936 addendum to the B.P. 1932. A copy is available to every pharmacist who makes application.

**ROBB'S NURSERY BISCUITS.**—Alex. Robb & Co., Ltd. (Dept. C.T.2), 145 Atkins Road, London, S.W.12, announce that Robb's food and nursery biscuits are now being nationally advertised. These products are stated to provide a scientifically prepared balanced infant diet. Inquiries are invited for price list and full particulars.

**BONUS OFFER.**—Petrologar Laboratories, Ltd., Braydon Road, London, N.16, direct attention to a new showcard which has just been issued, and chemists who care to display it for a fortnight will receive a bonus of Endrine nasal compound. At this time of year this product has a direct appeal to the public, and chemists are invited to order at once from their usual wholesalers.

**SCOTT'S VITAMIN PRODUCTS.**—Scott & Bowne, Ltd., 10 Stonecutter Street, London, E.C.4, direct attention to Halivite, which is a halibut liver oil, biologically standardised in regard to vitamin potency, Scott's malt and oil and Scott's cod liver oil. Halivite is issued in tins of 30, bottles of 50 and 100, and the oil itself in packings of 5, 15 and 30 c.c. The malt and oil is stated to contain 25 per cent. of cod liver oil, giving a vitamin strength three times greater than national mark standard. Two sizes are issued: 10 oz. and 20 oz. Scott's cod liver oil has a guaranteed vitamin content of 1,500 international units A and 200 international units D. This product is also issued in bottles of 10 oz. and 20 oz. Further information and display material is available on application.

**BUTYWAVE WEEK-END OUTFIT.**—Illustrated herewith is an economical week-end hairdressing outfit which is stated to contain everything necessary for shampooing, waving and setting the hair. The outfit contains a Butywave hair setter, wave-setting powder and shampoo, the set being enclosed in a folder. Further details may be obtained from the Butywave Co., 5 Rampayne Street, London, S.W.1.



**EASTER NOVELTIES.**

—The Vinolia Co., Ltd., Bebington, Cheshire, offer chemists their illustrated list of Easter novelties. Trading terms are described as attractive. There is a special display appeal, and the usual Vinolia quality is presented.



## "C. & D." Retail Price List

The drug index for January was 149.0, an advance of 0.7 over December. The main cause was the increase in cost of glycerin. The figure for the corresponding month in 1936 was 147.0. There was no change in the surgical dressings index for January from that of December 1936 (137.1). The important changes in selling and dispensing prices are set out below:—

Cost		Drugs and Chemicals	Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
99	lb.	Agar (shredded) .. ..	—	3 6	1 0	—
105	lb.	Agar pulvis .. ..	—	3 10	1 1	—
69	oz.	Ext. ergotæ pulvis ..S.I.(5)	—	—	10 0	1 5
60	lb.	Glycerin. pepsin. fort. ..	—	2 10	0 10	0 2
24	lb.	Glycerin. phenolis ..P.II.(9)	—	1 4	0 5	0 1
18	lb.	Glycerinum .. ..	3 0	1 0	0 4	—
18	lb.	Glycerinum (wgt.) .. ..	2 3	0 9	—	—
28	lb.	Glyc. acidi borici .. ..	4 3	1 6	0 6	—
30	lb.	Glyc. ichthamol. .. ..	—	1 6	0 6	0 1
40	lb.	Glyc. pepsini .. ..	—	1 11	0 7	0 1
132	lb.	Ol. lavandulæ spic. coml. ..	—	4 9	1 4	0 3
23	oz.	Ol. limonis .. ..	—	—	3 4	0 6
21	oz.	Ol. limonis (Messina) .. ..	—	—	3 1	0 6
108	gal.	Ol. morrhuae (British) .. ..	1 6	0 6	0 2	—
132	gal.	Ol. morrhuae (Nor.) .. ..	2 0	0 8	0 3	—
228	gal.	Ol. olivæ (cream) .. ..	3 3	1 0	0 4	—
216	gal.	Ol. olivæ (sublime) .. ..	3 0	0 11	0 3	—
204	gal.	Ol. olivæ (fine) .. ..	2 8	0 10	0 3	—
156	lb.	Tr. chlorof. et morph. co. D.D.	—	—	1 10	0 4

the Imperial College of Science and Technology (who becomes K.C.B.), Dr. J. A. Arkwright, F.R.S., Dr. J. C. G. Ledingham, director of the Lister Institute, and Dr. E. K. Le Fleming. The M.B.E. is awarded to Mr. Albert Fry, D.C.M., M.M., late Government Pharmacist in British Guiana, and to Mr. F. I. Haddad, Inspector of Pharmacies in Palestine.

Mr. A. W. ANDREWS, of the representative staff of G. B. Kent & Sons, Ltd., London, E.C.1, has recently returned from Australia. The company's brushware is in great favour with the Australian buying public, despite heavy duties and consequent high retail prices. In Mr. Andrews' opinion, there is a potential market for better-class English-made goods. In a large number of cases, buyers of the big stores, in every city in Australia, are eager to see and examine samples of English manufacture, and are only too willing to place orders, providing prices are within reason, for their particular class of trade. At the same time, they point out that it is sometimes necessary to manufacture and pack certain lines particularly to meet the requirements of the Australian trade, and in some cases it is difficult to get English firms to do this and to get out of the beaten track. It was frequently remarked that it was a great pity that more English firms did not send representatives occasionally to Australia, so that they would have a first-hand knowledge of the particular requirements of Australian trade.



Mr. A. W. ANDREWS

## Personalities

Mr. J. A. DALE, M.P.S., Lord Mayor of Stoke-on-Trent, has been elected an alderman of the city.

Mr. J. W. CLARK, M.P.S., Bury, was the successful candidate in a recent by-election for Redvales ward of the local town council, heading the poll in a three-cornered contest.

Mr. H. S. FENTON, M.P.S., Worple Road, Wimbledon, London, S.W.19, asks us to convey his thanks to all those who inquired regarding his progress after his recent operation. Mr. Fenton is now convalescent and hopes to resume his full duties in a few weeks.

BEFORE the meeting of the Hertfordshire Pharmaceutical Committee on January 20 Mr. S. T. Milbank, Ph.C., chairman, made a presentation to Mr. D. W. E. Barker, M.P.S., Watford, who has retired from the position of secretary after twenty-five years' service. The presentation took the form of a dispatch case, an electric clock and a cheque. Mr. Milbank said the presentation was from the chemists of Hertfordshire in recognition of Mr. Barker's services. Mr. Barker, in reply, said it was more than kind of chemists to recognise his services in the way they had. Mr. Barker's position as secretary of the Pharmaceutical Committee has been taken over by Mr. H. F. Hayllar, M.P.S., Hoddesdon.

An amusing cartoon appeared in a recent issue of the "Hampstead and Highgate Express." The cartoon fore-shadows possible or actual coming events of the suburb, and the first figure in a procession of people about to drop gifts into a mythical ratepayer's stocking is Mr. Alban Atkin, well known in Hampstead both as a pharmacist and as a vigilant guardian of the ratepayers' interests. Mr. Atkin is represented as presenting the ratepayer with a bottle of aspirin tablets, which, the cartoonist leaves it to be inferred, will be needed during the year.

THE official list of birthday honours contains, as usual, little of direct interest to pharmacy. Sir Harry McGowan, chairman of Imperial Chemical Industries, Ltd., receives a peerage; and among the new knights are Mr. H. T. Tizard, F.R.S., rector of

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1937, p. 338.

(From "The Trade Marks Journal," January 13, 1937.)

"KELPEN"; for medicated beverages derived from kelp (3). By Stablon Laboratories, Ltd., 10 Henrietta Street, London, W.1. 572,498.

"SUPEX"; for medical india-rubber bandages (11). By E. C. McNally, 52 Roberts Road, Leicester. 572,449.

Geometrical design with initials "J. D. D. D." (exclusive use of "J. D. D. D." disclaimed); for shaving cream (48). By D. N. & J. Dance, 4 Blosswood Villas, Whitechurch, Hampshire. 572,641.

"SIKA-KYE"; for all goods (48), excluding preparations for the teeth. By T. S. Hartley, 26a West Street, Ryde, I.O.W. 571,775.

"CRUK"; for perfumery, excluding soap (48). By Coty (England), Ltd., 3 Stratford Place, London, W.1. 572,473.

"UCADENT"; for dentifrices and denture-cleaning preparations (48). By United Chemists' Association, Ltd., London Road, Cheltenham. 573,754.

### APPLICATION AMENDMENT

The specification for "COMPASS," in Class 8, No. 570,757, by Compass Cameras, Ltd., has been amended to "photographic apparatus included in Class 8, excluding photographic shutters."

(From "The Trade Marks Journal," January 20, 1937.)

"SPRO"; for all goods (1) and (39), for gelatine capsules, etc. (50).

"ASPRO"; for gelatine capsules, etc. (50). By Aspro, Ltd., Basil-don House, Moorgate, London, E.C.2. 571,619/627/661, 565,164. (Associated.)

"MIGAMAT"; for all goods (1). By Society of Chemical Industry in Basle, 141-227 Klybeckstrasse, Basle, Switzerland. 573,401. (Associated.)

"HYVEL"; for veterinary chemicals, etc. (2). By E. S. Bailey & Co., Ltd., 19 Cannon Street, Manchester, 4. 573,140.

"EITELYM"; for agricultural compound containing lime (2). By J. S. G. Telfer, 61 Chancery Lane, London, W.C.2. 573,431.



## Births

Notices for insertion in this column must be properly authenticated.

COXON.—At St. Elmo, Watlands Avenue, Porthill, Staffs, on January 24, the wife of C. H. Coxon, M.P.S., of a daughter.

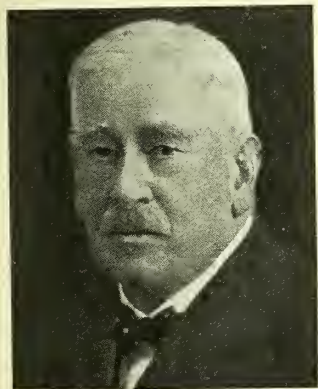
## Marriages

HADDON—MOSELEY.—At Sheffield, on January 28, Horace Arthur Haddon, M.P.S., F.S.M.C., F.I.O., director of Jenners (Chemists), Ltd., and Don Johns, Ltd., to Janet May Moseley.

STEPHEN—BELL.—At the East Church, Inverbervie, Montrose, on January 27, William D. Stephen to Jessie Bell, M.P.S.

## Deaths

QUELCH.—At his residence, Halstow, St. George's Road, Bickley, on January 23, Mr. Henry Charles Quelch, aged eighty-five. Mr. Quelch was for some years in the service of William Edwards & Sons; in 1887 he commenced business at 19 Ludgate Hill, London, E.C.4, on his own account. The business started with an agency for the Henry Tetlow Co., Philadelphia, U.S.A., and Swandown Face Powder rapidly became popular. Later Mr. H. C. Quelch became associated with the Arthur Wells Co., Conshohocken, U.S.A., and then the agency for Northam Warren, proprietor of Cutex, was acquired. In 1897 Mr. Quelch began the agency for A. Bourjois et Cie, Paris and New York. From this small beginning grew the first factory for Bourjois in England at Carter Lane, with their Parisian showrooms at Water Lane. Mr. Quelch devoted himself to the business with great ability and energy, and on several occasions visited Australia, New Zealand and South Africa in the interest of his company. It was Mr. Quelch who inaugurated Messrs. Bourjois' business in these countries. To the date of his death he was keenly interested in the activities of the organisation that he had created. All who knew him (and his friends were many) will retain recollections of his keen and shrewd character and at all times his unfailing courtesy. Not the least of his many qualities was a generous and kindly disposition.



MR. H. C. QUELCH

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BIRKETT.—Recently, Mr. John Birkett, Ph.C., 19 Sulby Grove, Bare, Morecambe, aged seventy-one. Mr. Birkett took an active part in the development of Morecambe, where he carried on business for a long period. He was Mayor of the town in 1914-15.

GOUGH.—At Avonhurst, Guildford, on January 28, Mr. Ernest William Gough, M.P.S., managing director of Lewis & Burrows, Ltd., 146 Holborn Bars, London, E.C.1, aged sixty-nine. Mr. Gough joined Messrs. Lewis and Burrows in 1895. He was appointed general manager in 1898, and became managing director in 1916. For three and a half years Mr. Gough was a member of the London Pharmaceutical Committee. The funeral, which took place at Guildford Cemetery on February 1, was attended by many friends. Among those present were Mr. J. C. A. Davies (chairman), Mr. Ben Jones and Miss G. A. Starling, directors of Lewis & Burrows, Ltd.; the London Pharmaceutical Committee was represented by Mr. J. Milner and Mr. G. A. Tocher (secretary); and the staff of Lewis & Burrows, Ltd., by Mr. J. E. Salter, M.P.S., Mr. F. E. Willis, M.P.S., and Mr. M. E. Walden, M.P.S. "E. H. G. B." (3/2) writes:—

For two years I was at the premises at Holborn Bars and was in daily contact with Mr. Gough. During the next two years I was

a branch manager and had a weekly visit from him. We all appreciated him because of his uniform courtesy. He was a chemist who had been in the business all his life, and consequently understood the view-point and difficulties of the assistant or manager. Staff troubles were unknown. We were a happy lot at Holborn Bars. As a business man he had lofty ideals which he lived up to, and the whole company was run in modern style.

HUES.—At Rolleston, Staffordshire, on January 25, Mr. William Richard Hues, retired chemist and druggist, aged eighty-five. For over twenty years Mr. Hues was the proprietor of the pharmacy of Wright & Son, High Street, Burton-on-Trent, retiring six years ago.

JAMIESON.—At Port Elizabeth, South Africa, on December 12, 1936, Mr. David Maxwell Jamieson, chemist and druggist (managing director, Pharmacal Products (Pty.), Ltd.), aged fifty. Mr. Jamieson was a native of Forfar, and spent eighteen years in retail trade before going to South Africa. He was president of the Port Elizabeth and District Chemists' Association for several years.

LUSHER-PENTNEY.—Recently, Mr. George James Madgett Lusher-Pentney, dentist, chemist and druggist, 98 Queen's Road, London, E.8. Mr. Lusher-Pentney, who qualified in 1904, succeeded to the pharmacy and the dental practice of his relative, the late Mr. J. C. Pentney.

THOMAS.—Recently, Mr. Herbert Charles Thomas, chemist and druggist, Birchington-on-Sea. Mr. Thomas qualified in 1899.

WILSON.—Recently, Mr. William Mathew Wilson, chemist and druggist, Little Thurrock, Essex, aged fifty-eight.

## Coming Events

This section is reserved for advanced notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Monday, February 8

*Pharmaceutical Society, Harrow Branch*, Gayton Rooms, Station Road, Harrow at 8.45 p.m. Miss Edna Roe, Ph.D., B.Sc. (Research Institute, Royal Cancer Hospital, Fulham Road, London) on "A Chemical Investigation of the Cancer Problem." Illustrated.

### Tuesday, February 9

*Pharmaceutical Society, Dartford and District Branch*, Bull's Head Hotel, Dartford, at 8.30 p.m. White drive and social evening. Tickets, 2s. each, from Mr. H. E. D. Wilson, 44 Old Road West, Gravesend.

*Guild of Public Pharmacists, Manchester Branch*, Grand Hotel, Manchester, at 6.30 p.m. Annual dinner-dance. Dancing till 1 a.m. Tickets 6s. 6d. each.

*Pharmaceutical Society of Great Britain*, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Dr. C. H. Hampshire (secretary to the Pharmacopoeia Commission) on "The Addendum, 1936, to the British Pharmacopoeia, 1932."

### Wednesday, February 10

*Birmingham Pharmaceutical Association and Branch*, Botanical Gardens, Edgbaston, from 8 p.m. to 1 a.m. Dance. Tickets 3s. 6d. each. Late buses.

*Pharmaceutical Society, Glasgow and South-Western Scottish Branch*, Gordon Restaurant, 19 Gordon Street, Glasgow, at 8 p.m. Mr. E. H. Simmons (vice-president of the Pharmaceutical Society) on "The Service We Render."

*Croydon Pharmacists' Association and Branch*, Café Royal, North End, Croydon, at 7 p.m. for 7.15 p.m. Annual Dinner and Dance. Guest: Mr. Thomas Marns (president of the Pharmaceutical Society). Tickets, 8s. 6d. each.

*Pharmaceutical Society, Torquay and District Branch*, Victoria and Albert Hotel, Torquay. Whist drive and dance. Tickets (including buffet), 3s. 6d. each from Mr. H. W. Payne (Boots, Ltd.), Fleet Street, Torquay.

*Chelsea Pharmacy Association*, Westminster Palace Rooms, 44 Victoria Street, London, S.W.1, at 7.30 p.m. Annual reunion. Tickets, 5s. each.

### Thursday, February 11

*Pharmaceutical Society, Leeds Branch*, School of Medicine, Thoresby Place, Leeds, at 8.30 p.m. Dr. W. A. Bain (reader in Pharmacology, Leeds University) on "The Human Body as a Drug Factory."

*Manchester Pharmaceutical Association*, Victoria Hotel, Deansgate, Manchester, at 8.30 p.m. Dr. R. F. Corran (Evans' Biological Institute) on "Manufacture and Sterilisation of Biological Products."

*West Ham and Eastern District Association of Pharmacists*, May Fair Hotel, Berkeley Street, W.1, at 6.30 p.m. Dinner-dance. Tickets from Mr. J. Reed, 32 Church Street, E.15.



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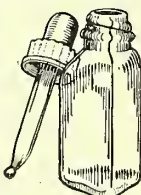
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# THE CHEMIST AND DRUGGIST

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## Chemists in Camera

ELSEWHERE in this issue a report is published regarding the meeting of the Oldham Chemists' Association which was held in London on January 31 to discuss the refusal of the Council regarding a resolution passed at the Bournemouth Conference last year. It is, perhaps, unfortunate that the report we have received is so brief, but when our reporter presented himself at the meeting he was informed that it was a private one and that no Press representatives could be admitted. Among the blights that have affected pharmacy in the past, one of the most obvious is the tendency to hold meetings *in camera*; and with every acknowledgment to the views held by the energetic chemists regarding the promotion of this meeting, it would seem that in holding *in camera* this meeting, presumably the first of its kind, many advantages which might have followed will with difficulty materialise. If we mistake not, it was at the March meeting in 1930 that the Pharmaceutical Society of Great Britain inaugurated a private meeting for discussion of matters of import and continued with an open meeting on the Wednesday which was more or less a simple official gathering at which nothing happened. Underground diplomacy appears to have had rather an unfortunate result in regard to the practice of pharmacy in this country; and if those who wish to regenerate conditions in the trade are desirous of obtaining a following, then without hesitancy we urge that full publicity should be given to meetings of this description. What officialdom or the so-called dictatorship in pharmacy probably prefers is for those who protest to hold their meetings *in camera*. Pharmacy to-day is not a business which affects any one district in the country. According to the official Register, there are approximately 23,000 individuals who have taken the trouble to qualify as pharmacists and are anxious to know what exactly their status in the commercial community is. This refers especially to the oncoming generation.

It will be noted that one of the points made at the meeting of the Oldham chemists was that a National Election Committee be formed to secure the representation of retail chemists on the Council, and further, that five candidates should be supported. It is hardly necessary to go further than to state that the argument for an increase in the number of retail chemists on the Council must be given as much publicity as possible, so that the trade may know what exactly the scheme behind the meeting called by the Oldham Chemists' Association is. No doubt chemists throughout the country would have been prepared to give very careful consideration to the programme. Unfortunately, there is so far no indication as to what is proposed; and unless this is forthcoming very soon, it is hardly likely that chemists will take the trouble to consider the possibilities of adding another party or organisation to those already in existence.

## New Crop Agar Shortage

FOR many years the season's shipment quotations for Kobe No. 1 ranged from 2s. 6d. to 3s. per lb. c.i.f., with spot values moving up as the year went on, usually reaching 4s. per lb. ex store. In the 1935 and 1936 seasons, however, shippers' quotations opened as low as 1s. 10d., and throughout did not exceed 3s. c.i.f., and most of the usual importers placed their orders at somewhere near the lower values. With the approach of the opening of this season's crop, in November and December, there were sellers on this market from 2s. to 2s. 2d. per lb. c.i.f., while the cheapest offer from the shippers was 2s. 3d. c.i.f. The sellers on this market apparently did some business, and their offers had the effect of making the usual importers hesitate from buying from the source. During the past few weeks prices coming through from Japan have been persistently advancing, and it is now clear most importers have missed their market. The early cheap sellers have had to cover in at a premium of anything from sixpence to ninepence. Reliable reports from the source state that the crop is an unusually small one, due, largely, to the very mild season. The raw material, after being gathered from the sea, is transported to the mountains, where frost is usually experienced. This season, it is stated, was a particularly mild one, and in consequence, a good deal of the crop became unusable. Freezing is necessary only for the purpose of preserving the weed until it is processed. Artificial methods are too costly, hence recourse to the natural method of refrigeration in the higher altitudes. Although market prices have advanced considerably this season, they are still under what, for many years, was accepted as a normal value. The strength of the market at the source is indicated by the persistent rejection of bids at slightly less than shippers' quotations, and the steady rise throughout the past five weeks. The quantity so far booked for this market is estimated at much less than normal, while dealers report a fairly substantial increase in consumption, due, mostly, to agar being preferred to gum acacia, particularly by some of the makers of pastilles. This morning cabled advice has been received from some shippers withdrawing all offers.

## Poisons at Auction

ON another page of this issue will be found an article by a barrister discussing the legal possibilities involved in the sale of statutory poisons by auction. As our contributor points out, the Legislature apparently overlooked this matter during the passing into law of the Pharmacy and Poisons Act, 1933. Suitable provision for this type of event should have been made, especially as auction sales of excisable liquor are subject to conditions duly noted in Halsbury's "Laws of England." A brief study of the Act of 1933 and the Poisons Rules of 1935 will suffice to make it clear that a sale of poisons by auction, as usually conducted, does not comply with the conditions of either wholesale or retail selling. We do not know what consideration, if any, the Incorporated Society of Auctioneers and Landed Property Agents will give to the letter recently addressed to it by the Pharmaceutical Society of Great Britain; but presumably the terms of Section 23 of the new Act are wide enough to enable the Secretary of State to make a Rule covering the matter to which the letter refers. In the eighteenth century there was in vogue a very effective method of confining auction sales to the classes of people for whom they were intended: thus, in the "Daily Advertiser" of June 28, 1745, appeared an advertisement of the sale of the "drugs, chemicals and galenicals" of a certain Thomas Thornborow, "adapted for Druggists, Chemists, Apothecaries, and Surgeons, and no other Persons to be admitted." As is well known, admission by catalogue is usual in some of the more important auction sales in this country; and a restriction of this kind would be one way of ensuring that poisons did not find their way into undesirable channels.



# Medicine Stamp Duties Select Committee

THE Select Committee of the House of Commons appointed to inquire into the medicine-stamp duties took further evidence on January 28, Sir John Ganzoni again presiding. It is possible, but not probable, that one further sitting in public may be held in order to hear a witness who may be recalled.

## Evidence from Herbalists

The first witness called on January 28 was Mr. Harry Orbell, who submitted on behalf of the National Association of Medical Herbalists the following memorandum:—

The National Association of Medical Herbalists does not encourage its members to produce, and market, preparations which come within the provisions of the Medicine Stamp Acts. They do not prohibit this method of trading, first because the number of their members so doing is very small, second, their preparations are usually prepared in accordance to the formulas in the National Botanic Pharmacopoeia. These formulas are approved by the governing council of the Association, and are at the service of all members. They are in no sense secret remedies; any member of the public can purchase a copy of the Association's Pharmacopoeia.

In principle, the Association does not favour the sale to the public of preparations coming within the provisions of the Medicine Stamp Acts because they are of opinion that, owing to the diverse phrases [phases] of organic misfunction, the claims of many patent medicines cannot reasonably be sustained, and further, a proportion of the public are liable to assume, however erroneously, that the affixed medicine-duty stamp is in some measure a guarantee of the virtues claimed for the preparation.

My Association ask that any preparations made and sold by their members which would ordinarily come within the provisions of the Medicine Stamp Acts shall be exempt from such duty, provided that the preparations in question shall have been made to any of the formulas in the Association's Botanic Pharmacopoeia, or that the formula is known, admitted and approved by the Association.

Alternatively, or in addition to the foregoing, they respectfully suggest:—

(1) That the system of affixing a medicine-duty stamp upon a preparation shall be substituted by a revenue licence the cost of which would be assessed upon production figures of the preparation in question.

(2) That no revenue licence shall be granted until the formula, and what is claimed for it, is at first submitted to and approved by a board of competent authority.

(3) That all herbal preparations for which a revenue licence is desired shall be submitted to an authoritative board of medical herbalists, upon which the National Association of Medical Herbalists, by reason of it being the oldest society of herbalists in the world, shall have adequate representation.

## Questions to Herbalist

THE CHAIRMAN: We have your memorandum before us, which is very clear and very brief; have you anything to add to that?

MR. ORBELL: I should like to add a little. I am not going to elaborate to any great extent, but my Association does not encourage its members to market preparations which come within the Medicine Stamp Duties Acts. The reason is that the preparations are unusually small and usually in accordance with the formulas of the Botanic Pharmacopoeia. These formulas are approved by the Council of the Association and are at the service of the members of the Association or the public, and are in no sense secret remedies. In principle, the Association does not aid the sale of preparations coming within the provision of the Medicine Stamp Duties Acts, because they are of the opinion that many of the claims of patent medicines cannot reasonably be sustained. The public are liable to assume that the fixing of a medicine stamp is a guarantee of the virtues claimed for the preparation. We ask that all preparations made and sold by our members which would come within the provisions of the Acts shall be exempt from such duty, provided that the preparations in question shall have been made up in accordance with the formula in the Association's Botanic Pharmacopoeia, or the formula is known, admitted and approved by the Association. In conclusion, my Association would like to suggest alternatively, or in addition to the foregoing, that the system of fixing the medicine stamp upon the preparation shall be substituted by a revenue licence, the cost of which would be based upon production figures of the preparation in question. Further, that no revenue licence shall

be granted until the formula has been first submitted to the board of a competent authority, and that all herbal preparations, however much the revenue licence is, shall first of all be submitted to a medical body, on which our Association shall have adequate representation.

THE CHAIRMAN: Your recommendation that medicines shall only be sold after submission: does that recommendation only apply to herbal or to all medicines?

MR. ORBELL: As at present applied, to all medicines which come within the provisions of the medicine-stamp duties.

THE CHAIRMAN: I understand that on the present working of the Acts, the practice, as far as you are concerned, is that the authorities deem it an unmedicated herb or preparation of herbs if it does not carry a stamp?

MR. ORBELL: Yes.

THE CHAIRMAN: And if they are medicated, or if they are merely mixed?

MR. ORBELL: The mixed herb, unless there is a special name for it, would not come within the provisions.

THE CHAIRMAN: What happens if you wish to sell a preparation of mixed herbs, in any way medicated?

MR. ORBELL: In the fluid state or the dry?

THE CHAIRMAN: Tell me both.

MR. ORBELL: When in the dry you are selling a mixture of commodities.

THE CHAIRMAN: And that is not taxed?

MR. ORBELL: If you name it for a special purpose, it would come within the provisions of the tax.

THE CHAIRMAN: Are the great part of your drugs free of tax at the moment?

MR. ORBELL: Yes.

THE CHAIRMAN: I believe that certain big firms frankly stamp some of their products?

MR. ORBELL: Probably they think it is advisable, but we have not gone into the legal aspect.

THE CHAIRMAN: Do you mean that they could successfully, in the present state of the law, resist it?

MR. ORBELL: Yes.

THE CHAIRMAN: Have you any particular case or instance?

MR. ORBELL: If you sell a combination of herbs for the regulation of the pancreas, you will not be liable, but if you sold the same herbs as a diabetic specific you would be liable.

MR. G. LATHAN: Does the Association take the view that medicines in the herbal state should be free?

MR. ORBELL: We prefer that. All drugs should be free where the formula is disclosed to a competent authority.

MR. LATHAN: This competent authority, is it to be composed of herbalists only?

MR. ORBELL: No, but of those who are competent to give authority and judgment upon the formula presented to them.

MR. G. BENSON: Would you suggest that medical herbalists should be in a special category themselves.

MR. ORBELL: They should have no more privileges than the chemists and druggists.

MR. BENSON: You would claim no more; that would put you in a different category.

MR. ORBELL: We would not be in a category below.

CAPTAIN A. H. M. RAMSAY: Presumably you mean this body should examine all the medicines in the market at present? Have you any idea how long that would take?

MR. ORBELL: I do not know, but I should suggest that where a preparation has been in the market for some time, and has a known and accepted value, it should be exempt.

CAPTAIN RAMSAY: You would have a list of patent medicines which need not go through this. Have you prepared such a list?

MR. ORBELL: We have not, but we could have it prepared.

MR. LATHAN: Assuming we decide to tax all remedies offered to the public, whether disclosed or undisclosed, and preparations in any form were taxed, would you suggest that simple herbs should be taxable or non-taxable?

MR. ORBELL: Simple herbs should not be taxable.

MR. LATHAN: Your differentiation is that one is manufactured and the other is a non-manufactured product?

MR. ORBELL: If I bought aspirin in bulk, it should not be taxable; but if I made it into an attractive tablet and made certain claims for it, then it should come under the revenue.

MR. LATHAN: I want to find out whether a herbal remedy



which is put up, advertised and sold to the public as a remedy, or as an alleviation for a specific disease, should be in a different category, merely because it is a herb, from another medicine which is a mineral or a vegetable extract?

MR. ORBELL: I claim no privileges as such because they are herbal, but they should be judged on the same value as the others.

MR. LATHAN: You are perfectly satisfied if you are brought into a scheme with any other advertised medicines?

MR. ORBELL: Yes, providing the underlying principle is adopted, not so much from the revenue point of view, that preparations shall not be sold to the public unless there is some substantial ground for the claims made.

MR. LATHAN: We are not concerned with that. You would be satisfied if all herbal medicines were on exactly the same basis as any other medicine?

MR. ORBELL: That is too sweeping for me to answer. I should be perfectly satisfied if herbal medicines which have the same claims as mineral medicines came into the same category.

MR. LATHAN: Taxation is not based on the claims of the advertiser. At the present moment the herbal medicine is excluded. Do you claim the exemption should be continued?

MR. ORBELL: Naturally, provided the formula is in the Botanic Pharmacopœia.

THE CHAIRMAN: I cannot agree that, at the moment, the herbal remedies are excluded.

CAPTAIN RAMSAY: I think you suggested you would have a list of specific remedies which you would put before this Committee. Can you suggest an easier and more non-contentious method of justifying whether these remedies should go before the Committee?

MR. ORBELL: I was putting my suggestion on the medicinal value, which is outside the province of this Committee; but if the preparation has been on the market for a number of years, it would probably be decided that is a sufficient guarantee that its formula is not misrepresented.

CAPTAIN RAMSAY: Say ten years? If it has been in the market for that time, it should be excluded from any further examination?

MR. ORBELL: Yes, but I should say five years.

SIR JOHN HASLAM: Would not that suggestion exclude any further research? What about the modern discoveries?

MR. ORBELL: I should be very hesitant to accept any remedy claimed to cure an organic disease. If any fresh remedy was brought out, they could submit their formula, and it would be examined, and the licence granted or refused.

SIR JOHN HASLAM: Certain people claim exemption for what is called the known, admitted and approved remedy. Would you claim the same exemption for herbs?

MR. ORBELL: If they come within the same category.

SIR JOHN HASLAM: What is the difference between a herbal remedy sold in a grocer's shop and a herbal remedy sold in your establishments?

MR. ORBELL: A grocer would sell this remedy upon the request of the purchaser, whereas the herbalist would sell it as the result of consultation or the disclosure of the symptoms, as a rule.

SIR JOHN HASLAM: As a rule, but you would not say it is always so? Does a person go in and ask the medicinal properties of the various herbs?

MR. ORBELL: He can buy them elsewhere, but if he goes to a grocer's, it would be presupposed he has a previous knowledge. If he goes to a herbalist, it would be to get the necessary information.

SIR JOHN HASLAM: Even if they are mixed outside the establishment? You make the same claim as the chemists in that respect?

MR. ORBELL: Decidedly.

SIR JOHN HASLAM: Do you think there is any possibility of getting a competent board of medical men and herbalists to agree?

MR. ORBELL: I have sufficient faith in human nature to say so.

SIR JOHN HASLAM: Do you think it is possible to form a board, sufficiently qualified, at the present time?

MR. ORBELL: In our opinion, yes.

SIR JOHN HASLAM: Would you exclude Gipsy Petulengro, who recommends single herbs, not a conglomeration of Latin names?

MR. ORBELL: If he was a member of our Association, and had a sufficient standard of knowledge, he would be included;

but if he had not, he would not be. One wants a body representing herbal knowledge, irrespective of class.

SIR JOHN HASLAM: You also said that they should be exempt if they continue to make out a substantial claim to efficacy. Is it not a debatable point whether they make out a substantial claim to efficacy?

MR. ORBELL: It is debatable, but we claim it can be decided.

SIR JOHN HASLAM: You agree that herbal remedies should have neither penalty nor favour in comparison with the ordinary mineral or drugs?

MR. ORBELL: We should claim no favour, but equal right to them.

MR. E. H. KEELING: By whom is the National Botanic Pharmacopœia prepared?

MR. ORBELL: By two members of the National Association of Medical Herbalists.

MR. KEELING: Is there any statutory authority for its preparation?

MR. ORBELL: No, the herbal authority is not recognised.

MR. LATHAN: Is admission to your Association contingent upon any examination?

MR. ORBELL: Yes, and five years' service.

MR. LATHAN: The contention of your body is that it desires to place at the disposal of the public general medicines—I am not sure, if that is the correct term—but beneficial herbal preparations at as reasonable a price as possible. Does that influence you in your attitude on the question of taxation?

MR. ORBELL: It naturally would influence it. We would prefer to see no tax, but the other is an alternative.

MR. LATHAN: Is there any measure of protection to the public in the consumption of your herbs?

MR. ORBELL: There is a protection, as we insist upon a standard of knowledge.

MR. LATHAN: Would you say there is any danger of taking of too much of these medicines?

MR. ORBELL: I suppose you mean mass consumption of herbal remedies, but they would have no poisons in them if the sellers are members of the Association.

SIR JOHN HASLAM: In these known, admitted and approved remedies, do you place the name on the bottle, the names of the herbs in plain English, or do you bury them?

MR. ORBELL: I and my fellow associates believe in plain English. We are against secret remedies of all descriptions.

SIR JOHN HASLAM: I am not asking for your belief.

MR. ORBELL: In my personal practice, yes, and in general practice, yes.

THE CHAIRMAN: Are all the members of this body practitioners?

MR. ORBELL: You cannot belong to the National Association unless you have passed an examination and are a practitioner and able to diagnose any trouble.

MR. KEELING: Has membership of your Association ever been refused on the ground that the applicant is selling worthless preparations?

MR. ORBELL: When an application is submitted, every investigation is made as to the applicant's character, his method of business and general conduct.

## Animal Medicine Makers' Evidence

Evidence was then given by Mr. V. G. Hine (Day, Son & Hewitt, Ltd.), as chairman of the British Animal Medicine Makers' and Allied Traders' Association, who was supported by Mr. E. G. H. Maddy, chairman of the Commercial Committee of the National Farmers' Union. The two bodies submitted a joint memorandum, of which the following are the principal passages:—

1. [Names of witnesses.]
2. The British Animal Medicine Makers' and Allied Traders' Association . . . is substantially representative of the animal medicine makers of Great Britain.
3. In the evidence submitted by the National Pharmaceutical Union to the Select Committee on Medicine Stamp Duty the following paragraph occurs:—

"(i) *Veterinary Medicines*.—It is remarkable that veterinary medicines have always been exempted from duty, in spite of the fact that if possible there is more quackery in veterinary medicines than in medicines for human use. Apart from the objections which might be raised by manufacturers, there appears to be no logical reason why secret or proprietary remedies for this purpose should be exempt from duty."

4. This Association would draw attention to the fact that if proprietary veterinary medicines are in future brought within the



ambit of the medicine-stamp duty, there must of necessity be an increase of cost to the consumer of 25 per cent. and upwards (corresponding with the value of the stamp) because the cost of the stamp will have to be passed on to the consumer. It is always the consumer who pays these duties in the long run. In this case the principal consumer is the agricultural community, and especially the livestock producers, who represent a depressed industry that is not in a position to bear any additional charges on the products which it consumes. It would be most unfortunate if, at a time when the Government is framing its policy to place agriculture on an economic basis, the agricultural industry were to be further handicapped by the incidence of a duty of this sort.

5. The imposition of a stamp duty will certainly reduce the consumption of the products in question and so tend to deprive the agricultural community of what are essentially its first-aid remedies, at a time when a special effort is being made to improve the health of livestock.

6. If the proposal of the National Pharmaceutical Union is made with the idea of stamping out any "quack" veterinary medicines that may exist, the Association desires to point out that the medicine-stamp duty has not achieved this object in connexion with human medicines. In fact, the stamping of proprietary human medicines has in many cases made the users believe that by virtue of the stamp the medicines have received the approval of the Government.

7. In brief, the Association holds the view that the effect of making proprietary veterinary medicines liable to the medicine-stamp duty will be to increase the cost to the agricultural community, and for this reason the proposal should be strongly opposed.

8. The above evidence has the full support of the National Farmers' Union.

### Questions on Animal Medicines

THE CHAIRMAN: There has been a considerable body of opinion on the question as to whether animal medicines should be brought into taxation. I should like to hear what you have to say.

MR. HINE: We have given a *précis* of evidence, and apart from that I do not think I have anything to say.

THE CHAIRMAN: In my boyhood days there was an Elliman's Embrocation, a veterinary one, and I believe there was another for human use; and in some cases the public bought the veterinary one for human use because it was stronger.

MR. HINE: I have known it.

THE CHAIRMAN: Does that sort of thing exist on a larger scale? Supposing our proposals are that there should be no alteration, would there be any risk of a new abuse growing up and a large number of articles escaping the tax, and being used by human beings?

MR. HINE: I do not see why there should be, any more than now.

MR. LATHAN: While it is probably true there is no disposition on the part of us to recommend any change, I would like to get the witness's contention as to the basis upon which his claim rests that animal medicines should be free of taxation, while medicines prepared for human beings should presumably continue to bear it.

MR. HINE: From the fact that 90 per cent. of our business is done in a distressed industry—the farm industry—which already has quite enough to bear, and cannot afford to pay more. The actual price of veterinary medicines works out much cheaper, but owing to the fact that the doses are considerably larger, it is sold in much bigger quantities. Whereas a man buys a bottle of medicine for his own use, the farmer would have two dozen for his animals, and consequently the purchase of medicines in the course of the year would be considerably more than in the average household.

MR. LATHAN: Would you suggest that the farming industry is more distressed than some other industries, or that there is a greater need to provide medicines as cheaply as possible for a farm animal or an unemployed worker in a distressed area?

MR. HINE: In the case of the farmer, that would be an extra taxation. The suggestion, if it took place, would be an extra tax, but in the other case, at the present time, it would not be an extra tax.

MR. LATHAN: I want the view of your Association.

MR. HINE: The view of the Association is that medicines for veterinary use have never been taxed, and we ask that they should not be incorporated in any proposition to tax medicines.

SIR JOHN HASLAM: Are your remedies labelled "Not for human consumption" or "Not for human use" in any way?

MR. HINE: No, sir; but when I say that, I am speaking for my own firm.

SIR JOHN HASLAM: Would you say a proportion of your remedies are used by human beings?

MR. HINE: I should say the proportion would be small, but I do not know that I have ever considered the matter.

THE CHAIRMAN: We may take it that none of the internal ones are used like that?

MR. HINE: Yes.

SIR JOHN HASLAM: Is it 1 per cent.?

MR. HINE: Nothing like 1 per cent.

MR. KEELING: But supposing that the scope of the tax were made much wider than at present as regards human remedies, would there not be a danger of that tendency that the chairman referred to being put into operation? I understand that Elliman's Embrocation for human beings is not taxed at present?

MR. HINE: Yes, it is.

MR. KEELING: I understand that a great many things for human beings are not taxed at present. Supposing they were taxed, would there not be an increasing tendency for animal medicines being used by humans?

MR. HINE: I doubt whether the ordinary man in the street would consider the matter. It is not as though our preparations are advertised in the daily Press or the public Press. Our advertising is confined to agricultural journals, and there are no displays in chemists' shops like there are for human medicines.

THE CHAIRMAN: Do you agree that such a sale exists at present, as in the case of Elliman's Embrocation?

MR. HINE: I do not agree at all. I am afraid it is difficult to speak for Ellimans as they are not members of our Association, but I should say that the sale of embrocation intended for veterinary use and used for human beings is infinitesimal.

MR. KEELING: Do you admit to your Association any manufacturer or vendor of animal medicines, or would you exclude people who you thought were selling worthless ones?

MR. HINE: Our election is by secret ballot, and the Executive Committee have power to state that such a firm has applied for membership and should not be received.

THE CHAIRMAN: Has that happened in your time?

MR. HINE: Yes.

THE CHAIRMAN: In the case of veterinary remedies there is no necessity to protect the patient from unnecessary purchases of remedies. An animal obviously cannot buy for itself, and therefore there cannot be any question, as there is with humans, of a very large consumption by people who are not in dire need of them. There is no question of remedies being sold in large quantities for people who do not want them?

MR. HINE: No.

MR. LATHAN: There are remedies for dogs, and certain powders are made. There are two advertisements—I will not mention names—that are constantly before you. Those advertisements are inserted, I suggest, for precisely the same purpose as those inserted for human remedies, to sell as much as possible and to make as much profit as possible. It might be difficult, therefore, to discover, on the face of it, a really substantial reason for extracting a tax from one and not the other.

MR. HINE: I do not think you will find the farmer will buy anything he did not actually want.

MR. LATHAN: Supposing I had a dog, and were persuaded to administer dog powders because of the character of an advertisement?

MR. HINE: That is not quite like human medicines, where the element of mind over matter comes in. With human beings you can buy coloured water, and you might induce yourself to say, "This is wonderful stuff, it has done me a lot of good." I do not think anyone would get an animal well by giving it a worthless preparation.

MR. KEELING: To put it in other words, would you agree that human credulity as to what a man puts into his own stomach is greater than what he puts into his dogs' or horses' stomachs?

THE CHAIRMAN: The word "worthless" is rather difficult, as it has a rather damaging inference. One knows quite well that many highly reputable men give coloured water to their patients because they expect some medicine. That is largely a question of faith, but that particular contention would not apply to animals?

MR. HINE: No, if a dog was given a worthless medicine it would not have as much chance of recovery as a human being.

MR. LATHAN: Let us think of this question purely from the financial aspect. In the one case the medicine is produced in bulk to persuade the consumer or person who buys it with a



view to making profit; that seems to be precisely the same motive as in the case of human medicines when they put them on the market.

THE CHAIRMAN: I think it must be admitted that is so.

MR. HINE: It might be, say, in the case of dogs.

SIR JOHN HASLAM: Would the members of your Association, if they were exempted, be prepared to put on their remedies "Not recommended" or "Not fit for human consumption or use"?

MR. HINE: I do not think there would be the least objection, but I cannot speak for the Association without consulting them.

SIR JOHN HASLAM: We think that somebody might get behind the Act of Parliament by putting all sorts of remedies on the market under the shelter of veterinary remedies?

MR. HINE: It has not been done at present, although there have been many avenues sought to evade the duty.

MR. KEELING: Except in a few cases. We have heard of one.

MR. HINE: I beg your pardon; I did not admit that the firm has done this on purpose to evade the tax.

SIR JOHN HASLAM: It distinctly says on the bottle "For veterinary purposes"; but grooms, who know the strength of this, resort to this universally.

MR. HINE: I do not think it has been done from any point of view of evading the tax.

THE CHAIRMAN: Mr. Maddy, if you have anything you would like to say, we will listen to you, of course.

MR. MADDY: Our only reason in attending here to-day is to support the Association in Paragraph 4 of the *précis*. We are farmers, and we are told that the cost would be handed on to us. The farmer, however, is not able to bear anything that would tend to increase the cost of production. That is my point, and that is why I have come here to reinforce the arguments.

MR. LATHAN: Would you consider that the farmer is entitled to a higher consideration than the public generally?

MR. MADDY: Certainly, under the present circumstances.

MR. LATHAN: Would I be correct in understanding that the overwhelming majority of these medicines are consumed on farms—I mean, used by the farmers on their animals?

MR. MADDY: I should say practically the entire. I know of no other uses for them.

MR. LATHAN: What about the owners of other animals, the horse owners and so on?

MR. MADDY: We buy the various remedies for use on our own stock—horses, cattle, sheep, pigs and so forth—and I have no knowledge of them being used for animals such as at the Zoo or anything like that.

MR. LATHAN: What about the private owner of horses? And take a large firm like milk distributors, they would have fifty, sixty or 100 horses, would they not?

MR. MADDY: I should imagine they would require them from time to time.

MR. LATHAN: They would not be in the same category as the farmers?

MR. MADDY: No, I would not regard them as being in the same category as farmers.

MR. LATHAN: Would not a big transport agency, a railway company for instance, be large consumers of animal medicines?

MR. MADDY: I cannot say. I do not know what their usage is.

MR. LATHAN: So that it would be a fair assumption that while farmers might easily be the larger consumers, there are other very heavy consumers?

MR. MADDY: I should imagine their requirements are not on a parity with the farmers' consumption.

SIR JOHN HASLAM: I do not want to put answers into your mouth, but is it not a question of the taxation of the raw material of the farmer? He keeps his animals in good condition, like oiling machinery, and therefore he takes these remedies?

MR. MADDY: It would undoubtedly have the effect on the cost of production in every way. There would be a direct tendency to increase the cost of production.

SIR JOHN HASLAM: Is there much need to protect the purchaser from quackery in the case of veterinary medicines?

MR. MADDY: I have never had reason to believe so.

The Committee then sat in private.

## Auction Sales of Poisons

By a Barrister

IT has recently been reported in the Press that an auctioneer sold by auction the stock in trade of a deceased pharmacist, among which was included a quantity of poisons. The question of the sale by auction of poisons has been brought to the notice of the Pharmaceutical Society, which has addressed a letter on the subject to the Incorporated Society of Auctioneers and Landed Property Agents. Such auction sales of poisons would seem to be against the spirit of the Pharmacy and Poisons Act and Poisons Rules, though the matter has obviously been overlooked by Parliament.

But one is not quite so sure that some infringement of the statutory requirements as to sales of poisons does not in fact take place when poisons are sold in this way. There are two classes of persons authorised to sell poisons by retail. First, persons who may sell the poisons enumerated in both Parts of the Poisons List ("authorised sellers"); and secondly, persons whose names are in the local authority's register of persons entitled to sell Part II poisons ("listed sellers").

As regards "authorised sellers," they include:—

(a) Registered pharmacists carrying on a business which comprises the retail sale of drugs, provided that the business of selling drugs is under the personal control of a registered pharmacist and his name and certificate of registration are conspicuously exhibited on the premises (Sec. 8);

(b) A body corporate carrying on a business comprising the retail sale of drugs, provided that the corresponding conditions specified in Sec. 9 of the Act are complied with;

(c) The representative of a registered pharmacist who is an authorised seller in the event of his dying or becoming of unsound mind or being adjudged bankrupt or entering into an arrangement with his creditors, in the circumstances set out in Sec. 10 of the Act.

It will have been observed that there are certain requirements to be complied with in the case of each type of authorised seller; but, furthermore, the premises where his business is carried on must be registered, and a list of the shops and

pharmacists in charge must be furnished in January of each year to the registrar of the Pharmaceutical Society. As regards "listed sellers," any person having premises in the area of the local authority may apply to have his name entered as entitled to sell Part II (but not Part I) poisons.

Let us now examine the restrictions on sales. No poison may be exposed or offered for sale in or by means of an automatic machine (Sec. 22, which meets the case of *Pharmaceutical Society v. Watkinson*, 1931, 2 K.B. 323). When a poison is sold, whether by itself or as part of some preparation, the container must be labelled in the prescribed manner. The seller's name or the address of the premises must be stated among other particulars.

In the case of an auction sale of poisons, even assuming that all the other statutory requirements are complied with, yet the requirement in the case of Schedule I poisons that the buyer must be known to the seller will be almost impossible of fulfilment. In this case the real seller, i.e., the vendor for whom the auctioneer is acting, may well fall foul of the law and expose himself to prosecution; but the auctioneer, in the majority of cases at any rate, will, it seems, be free from any liability. The auctioneer will usually be only an agent.

But even though an auctioneer may not be a seller, may he not be regarded as a "supplier"? If so, he may be caught in some cases by the labelling requirements. It is to be observed that Rule 5 of the Poisons Rules extends the labelling requirements of Sec. 18 (1) (c) of the Act to the supply of poisons (otherwise than on sale) "in like manner as if references in the said provisions to the sale or the seller of poisons included references to the supply and the supplier of poisons respectively." A person therefore may "supply" poisons without being a seller, though Rule 7 appears to limit supply to commercial samples.



## Six Papers at Manchester

A MEETING of the Manchester Pharmaceutical Association and the local Branch of the Pharmaceutical Society was held at the Victoria Hotel, Manchester, on January 28, Mr. T. R. Johnston in the chair. The chairman announced that the evening would be devoted to "ten-minute" papers.

### Belladonna Plasters

Mr. E. Berry, M.Sc., Ph.C., read a paper on belladonna plasters.

After a review of the requirements of the British Pharmacopœia and the British Pharmaceutical Codex, Mr. Berry said that so far as N.H.I. and various other Government services were concerned, the two officially recognised plasters were (1) Emp. Bellad., B.P., colophony base; (2) Emp. Bellad. viride, B.P.C., 1907, colophony base (plumbi). Much confusion had arisen regarding the widths in which commercial plasters were manufactured and supplied. Plumbi base plasters were made on machines constructed for 16 in. widths of material. From a manufacturing standpoint it was only economical to cut these into two 8 in. widths, the standard lengths being 1 yard, 3 yards, and 6 yards. If a doctor ordered one square foot, it had to be cut from a 16-in. width, and 4 in. waste remained. Calender spread rubber plasters, on the other hand, were produced 36 in. wide, this width cutting into five widths each 7 in. wide. The present standardisation was of the base itself, not of the total weight of plaster on a definite area. From a manufacturing point of view the standardisation of the compound itself gave a more constant plaster. He doubted whether the weight on area suggestion could be made a feasible proposition.

### Work of the Chemists' Defence Association

A paper on "The Work of the C.D.A." was read by Mr. W. I. Scholes. He said he considered it most important that all chemists, and especially the younger generation, should realise the great responsibilities that they unconsciously shouldered when they became retail pharmacists. He gave instances in which the defendant might have been mulct in hundreds of pounds as damages if he had not been a member of the C.D.A. No business man could afford to risk these liabilities.

### The Research Worker in Pharmacy

was the subject of a paper by Mr. C. E. Waterhouse, Ph.C., who spoke with emphasis regarding the apathetic way in which

the great majority of pharmacists in retail work viewed research. He was sure that if the average pharmacist would take a more lively interest in the research work intimately connected with his business, he would find it quite refreshing and it would broaden his outlook. One of the sure paths was that along which pharmacists can travel if they will only interest themselves in some form of research; they will then be in a better position to discuss with their fellow workers the advanced topics of the day.

### Radium and the Curies

was dealt with by Mr. H. Burlinson, Ph.C., in a survey covering the period from the discovery of radium in pitch blende up to the present investigation of the curative effects of this interesting substance. The lecture outlined briefly the life of Madame Curie.

### Dispensing, Yesterday and To-day

was chosen as his topic by Mr. E. Stabler, Ph.C. This paper covered a wide field; the author dealt with various types of prescription which, when one got them, created extra work and trouble for which no chemist was ever remunerated. He recounted how one of his old employers had spread three dozen plasters in one day. He was so adept at it that he never troubled to cut a shape. Mr. Stabler gave several instances of uncommon substances used for eye ointments and lotions. On one occasion suprarenal gland was ordered in an eye lotion; this ingredient he obtained from a local butcher's shop.

### Sutures and Ligatures

was the subject of a ten-minutes' talk by Mr. W. E. Phillipson. In the brief time at his disposal, Mr. Phillipson confined his remarks to the examples which were most easily explained. A board with over twenty exhibits was shown. Mr. J. Grier afterwards said it was hardly fair to expect such a subject to be condensed into a ten-minute paper. He would like to suggest that a whole evening be devoted to the subject.

A cordial vote of thanks to the six contributors was proposed by Mr. Grier. Mr. John Cleworth proposed the following resolution: "That all chemists' shops should be closed on Sunday." After a short and animated discussion, this resolution was carried by a large majority. Mr. Scholes said that if the discussion was any indication of the interest in the subject, he could see plenty more to follow at Liverpool next July.

## Items in Parliament

### IMPORTS OF PECTIN

The President of the Board of Trade was asked the quantity and value of pectin imported in 1935 and 1936, respectively.

Dr. Burgin (Parliamentary Secretary): The total imports of fruit pectin into the United Kingdom amounted to 4,466,000 lbs. during the year 1935, and to 6,910,000 lbs. during 1936. The corresponding declared values were £62,000 and £76,000.

### FEES FOR OPTICAL BENEFITS

The Minister of Health was asked whether he was aware of the anxiety among opticians at the new draft regulations concerning the payment of their services for ophthalmic treatment; and whether he would give an assurance that their position would be regularised in the new regulations, so that there would be no doubt about the legality of their claim for service fees in the future.

Mr. R. S. Hudson (for the Minister): There has never been any intention of depriving opticians of a fee for services rendered by them in connexion with the supply of glasses to insured persons, but my right hon. Friend is aware that some doubt has been expressed as to the position under the proposed Regulations. The matter is receiving the careful consideration of my right hon. Friend and of the Secretary of State for Scotland, and if they are satisfied that some modification of the wording of the draft Regulations is required in order to legalise the payment of such a fee, the necessary modification will be embodied in the substantive Regulations.

At a subsequent sitting the Minister of Health was asked whether he had considered the representations from the Institute of Chemist-Opticians and other pharmacists regarding National Health Insurance ophthalmic and optical benefits in Draft Statutory Rules and Orders, 1936, No. 434; and what action he proposed to take in view of these representations?

Sir K. Wood: The representations which have been made on behalf of the Institute of Chemist-Opticians will be brought to the notice of the approved committee to be set up under the new regulations. This committee is to include representatives of approved societies and organisations of opticians, among which I understand that the Institute of Chemist-Opticians is to be included, and it will be the duty of the committee to determine the qualifications which will entitle opticians to inclusion in a list of those to be recognised for the purposes of ophthalmic benefit.

### FACTORIES BILL

A Government Bill to consolidate and amend the law relating to factories has been issued (price 2s.) by H.M. Stationery Office. The Bill abolishes the distinction between factories and workshops, increases the amount of cubic space per person from 250 cubic ft. to 400 cubic ft. (subject to exemption), and gives the Home Secretary power to prescribe standards of temperature. Changes in the total weekly hours of employment for women and young persons are proposed.



# The "Eyes" Have It

An optical exhibition was opened at the New Horticultural Hall, Westminster, London, S.W.1, on February 2. The ceremony was performed by Sir Kingsley Wood, Minister of Health, who said that so far as the service given to insured



persons under ophthalmic benefit was concerned, the aggregate amount available was over £500,000 per annum. On the question of the payment of fees for services rendered by opticians, Sir Kingsley stated that it was, and had always been, his intention to provide for this in the new Regulations now before Parliament, and an examination was being made to see that the wording of the Regulations gave effect to that intention.

The exhibition was organised by the Association of Wholesale and Manufacturing Opticians. There were thirty-eight exhibitors. Demonstrations of new ophthalmic instruments and apparatus were given each afternoon, and there were also mannequin parades, showing the latest in spectacle frame styles. At one end of the hall was a display of modern optical publicity material, as shown in the illustration.

The window displays were those considered the best from a large number of entries, several of which were disqualified because they did not depict the cosmetic aspect of modern spectacle frames. A Coronation display was made at one stand, at another a Coronation souvenir was offered in the form of a spectacle case, while at a third Coronation frames were on view. Among a variety of interesting apparatus shown was the Collins electronic refractionometer, which employs infra-red light and electrical determination of focus; a hydraulic chair and unit which forms one of the most modern pieces of consulting-room equipment; an improved near-point measure; chromium furniture for the consulting room, while the range of spectacle frames should enable any optician to enhance the beauty of any client. The exhibition closed on February 4.

THE PICTURES SHOW: (1) Stands at the exhibition. (2) Exhibit of optical publicity material. (3) Second and (4) First prize displays in window display competition. (5) Demonstration of Scientype perimeter. (6) Third prize display in competition. (7) A model consulting room at the exhibition.



# Synthetic Resinoids

Abstract of a lecture given by Mr. H. V. Potter, B.Sc., F.I.C., to the Royal Society of Arts

**A**RTIFICIAL or synthetic resins are a group of bodies formed by chemical condensation, which results in a non-crystalline mass ranging between a semi-viscous liquid and a resin-like solid. When they have been permanently hardened by heat, some are no longer fusible like ordinary natural resins. The resinoids belong to a class of chemical product, the true chemical composition of which has not yet been settled. Their molecular grouping does not appear capable of assuming any definite orientation or of forming a mass with a definite crystalline shape.

## Phenolic Resinoids

Not until 1894 were investigations into the phenol-formaldehyde reaction carried out with a commercial purpose behind them. Dr. Baekeland turned his attention to the chemical reaction between phenol and formaldehyde, and his work resulted in the granting of patent rights in most of the commercial countries in the world. The patented process utilised a small amount of alkali such as ammonia to control the reaction, whereas previously inventors had used large amounts of acid or no accelerator at all. This discovery made all the difference between a controlled and a non-controlled reaction. Dr. Baekeland's discovery led the way to a method of producing these resinoids in a form in which they could be sold to other industries to manufacture into useful articles by a simple process of moulding in heated moulds under hydraulic pressure. Phenol and formaldehyde are heated together in a reaction vessel until combination takes place. The reaction results in the formation of the condensed product in a viscous form with the water separated above. The latter is removed, and the viscous material is concentrated according as whether a viscous treacle-like material or a hard resin-like body is required when cold. This material constitutes the resinoid, and if it is solid when cold, it can be readily melted by heating. If the heating is continued for some time, however, the resinoid will solidify permanently into a hard amber-coloured material, by the process of polymerisation. The molecular structures become re-orientated so that normal physical and even chemical forces have little effect on the properties of the material. In order to vary the properties and improve the strength and flowability of the resinoid it was mixed with various fillers of a fibrous nature, particularly wood-flour.

## Urea Resinoids

Some of the beautiful mouldings produced in new types of resinoids such as the urea-resinoids or amino-plastics are an outcome of the original cruder products of the early days of 1908-12. It was then only possible to have articles in black, brown or amber. To-day it is possible to have a resinoid plastic article in white or practically any colour or as transparent as glass. Phenolic products which are water-white when freshly made have been produced, and the slight darkening in colour which takes place on exposure to light has been reduced to a minimum. The odour drawback has been almost eliminated. It is possible to obtain moulded products which are entirely free from odour when properly moulded and completely polymerised, and which give out very little odour when warmed. About 1920-21 investigation work was being carried out on the condensation products of urea and formaldehyde. As an outcome of early work, others have succeeded in producing commercial products on different lines, and are establishing a new branch of the industry: amino-resinoids from urea. The amino-plastics have properties which render them eminently suitable for uses where colour is important. They can be produced white and in colour, and their light resistance is good. When moulded they are free from taste and odour. However, amino-plastics have certain drawbacks and weaknesses. Their moisture absorption is higher than that of the phenolic resinoids and they are not quite so weather-resistant. Condensation takes place in the cold, while the hardening reaction is effected by heating. Ultimately the result is the same—a hardened product which does not soften on heating but will burn when exposed to a flame. Amino-plastics made from urea resinoids are white in colour and are little affected by exposure to light. By the introduction of fillers and suit-

able colours beautiful blended effects can be produced, and so long as the colourings used are themselves permanent they are reasonably light-fast.

## Other Resinoids

Another product of importance which is made from the phenol and amino-resinoids is the laminated product. This consists of layers of paper, fabric or any absorbent material obtainable in sheet form, treated with a solution of the resinoid, dried out and pressed under heat and great pressure into solid sheets or blocks, or even into simple shapes. The product has certain advantages over the plastic moulding powders referred to previously. The presence of the long fibrous filler gives the finished hardened product added strength and greater resistance to shock. If the sheet which has been impregnated is cut up into pieces of small size, it can be used in the same manner as moulding powder and used in mouldings of a complex nature.

Resinous bodies obtained by heating glycerine and phthalic acid together are termed "alkyd resinoids." Alkyd resinoids have not the same properties as the others so far referred to, but they have an extensive application in particular fields. The manufacture is similar to that of other resins, but differs in details. For example, the time required for the reaction between the glycerine and phthalic anhydride to be complete is much longer. The result, however, is a hard water-white resinoid which can on continued heating for a matter of many days be changed into an infusible and hardened product which is still reasonably colourless, but has a horn-like property when cut. In this form it is used for decorative purposes. Alkyd resinoids may be dissolved and utilised as solutions. This material is now often utilised in place of shellac in the electrical industry on account of its good adherence for mica and its higher heat resistance than the natural gum. The products made in sheet form by this method have also been utilised for decorative purposes such as lamp shades and electric sign fronts.

The products known as vinyl and styrol resinoids are formed from acetylene. The gas is passed through acetic acid to form vinyl or styrol acetate, and this has the two-handed linking or double bond which allows it to form polymerisation products which are resinous and transparent but are not thermo-setting but thermo-plastic. Vinyl and styrol resinoids are non-inflammable and odourless and may be used as substitutes for cellulose and celluloid. They may be combined with other resinoids for the preparation of special materials. They have great toughness and hardness, and are thermo-plastic, i.e., they will soften under the application of heat, being opposite in character to the phenolic resinoids, which are thermo-setting.

## Organic Glass

A recent development in the resinoid industry is the production of a material called "organic glass," which is really a methyl acrylate resinoid. The methyl acrylate esters are produced from acetone and hydrogen cyanide, which give an additive product. The resultant resinoids are comparatively new and their properties and process of manufacture have yet to be fully investigated, but they show considerable promise of becoming of commercial value. There are several kinds, differing according to the esters from which they have been produced, but the one which is of most interest is, I believe, that produced from the methyl ester. This ester in its initial state is a liquid, but on exposure to light, oxygen or heat it quickly polymerises. This new substance can be cast in sheets, blocks, etc., which can be readily machined, turned and polished. It has a softening point a little over 120° C., and can thus be made reasonably flexible. A sheet of it looks exactly like glass until you handle it; then you appreciate the difference—it is much lighter, with a density of about 1.15, and it will bend on warming. It is quite fast to light, but is not so hard as glass and is therefore liable to wear more readily. The real possibilities of this substance have not yet been exploited, and the raw materials from which it is made are at present expensive.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, February 4

QUITE a nice volume of business continues to be transacted in most markets, with values keeping well up to the recent advances in the natural products. As yet there has been no significant or general movement to higher prices in PHARMACEUTICAL CHEMICALS, the values for which continue without any important alteration. It is noted, however, that Continental quotations are tightening up, and some sources are experiencing difficulty in quoting forward. The firmer tendency noted last week in EPHEDRINE HYDROCHLORIDE is becoming more marked and higher prices are practically certain. SALICYLATES are quoted unchanged.

## Crude Drugs

Business has again been on a good scale, with values well maintained. Supporting features are the shortage of spot supplies, with strong shipment markets. Japanese shippers' prices for new crop AGAR continue to advance. Editorial comment on p. 169. BARBASCO and DERRIS ROOF have been quiet for the time of year. Rather cheaper prices mentioned for spot BUCHU; new crop shipment offers being received. Japanese CAMPHOR is steady at the recent advance and the INDUSTRIAL quality is dearer this week. The famine in CARDAMOMS, spot and forward, continues. Most holders of CASCARA SAGRADA are maintaining their prices. New crop COLOCYNTH PULP is being quoted and attracting attention. The ERGOT market is practically nominal, due to lack of spot supplies and no shipment offers. GENTIAN is a very strong market. Very little demand for any descriptions of HONEY, but values are steady. HYDRASTIS and MATTO GROSSO IPECACUANHA are steady but in quiet demand. Good business in Japanese MENTHOL, with prices dearer on the week and shippers reporting a firm market at the source. Restricted supplies of MERCURY are quoted unchanged and firm. New crop Tripoli ORANGE PEEL is quoted for shipment. Good sales of rough round RHUBARB on spot. SENEGA keeps steady at recent advances. SLIPPERY ELM BARK is very short on spot. Spot values of TRAGACANTH are still soaring. BEES' WAXES firm and short.

## Essential Oils

Reports indicate business, although not quite so active as recently, has been on a very fair scale and values are being fully maintained. Continental ALMOND is dearer. ANISE (STAR) is firm. BERGAMOT has been quiet. Dutch CARAWAY shows a further advance; business has been good. Fair demand for CASSIA and prices are dearer on the week. American CEDARWOOD is steady at last week's advance. CITRONELLAS are easier and much quieter. Madagascar CLOVE continues firm. The limited supplies on spot of HO (SHIU) are again quoted dearer; no shipment offers. Buyers are showing no inclination to pay current values for Sicilian hand-pressed LEMON. No CALIFORNIAN oil offering. LEMONGRASS is easier and dull. French Guinea ORANGE is again dearer forward, with very few offers of new crop oil. CALIFORNIAN oil is firm at last week's advance, but there is nothing available at the moment. PALMAROSA is scarce on spot, with a very high shipment price indicated. Singapore PATCHOULI is a strong market. Japanese PEPPERMINT has sold very well and values are dearer on the week. Spot prices for WORMSEED are moving up to the parity of the recent increase in shipment.

## Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	Jan. 28	Feb. 4
Amsterdam ...	Fls. to £	12·107	8·95	8·94
Berlin ...	Mks. to £	20·43	12·17	12·18
Brussels ...	Belgas to £	nominal	29·08	29·06
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	109½	109½
Madrid ...	Ptas. to £	25·22½	nominal	nominal
Milan ...	Lire to £	92·46	93½	93½
Montreal ...	Dol. to £	4·86½	4·90½	4·90
New York ...	Dol. to £	nominal	4·90	4·90
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	105½	105½
Prague ...	Kr. to £	164·25	140½	140½
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	26	25½
Zurich ...	Fr. to £	25·2115	21·42	21·40

Bank rate 2 per cent.

## Pharmaceutical Chemicals, etc.

A STEADY routine business continues to be transacted with little change in values to record.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For smaller quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Remains quiet and competitive: spot, one cwt., 15s. 3¼d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Fair demand, market steady; quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices and terms of payment continue at the recent revision: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb.

BORIC ACID (B.P.).—Crystals, one cwt., 45s.; 7 lb., 5½d.; powder, one cwt., 47s.; 7 lb., 6d. per lb.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb., net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Market remains dull: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—As recently reported, prices for Continental material advanced, as follows, duty paid, in 5-lb. tins: Pure alkaloid, two cwt., 8s. 10½d.; one cwt., 9s. 0½d.; 56 lb., 9s. 2½d.; less than 56 lb., 9s. 4½d. per lb.; citrate, two cwt., 5s. 11½d.; one cwt., 6s. 0½d.; 56 lb., 6s. 1½d.; less than 56 lb., 6s. 2½d. per lb. Soda Sal., two cwt., 6s. 2½d.; one cwt., 6s. 3½d.; 56 lb., 6s. 4½d.; less than 56 lb., 6s. 5½d. per lb. English makers revised their prices, as follows: Pure alkaloid, two cwt., 9s.; one cwt., 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11d.; one cwt., 6s.; 56 lb., 6s. 1d.; less than 56 lb., 6s. 2d. per lb.

CHLOROFORM.—Prices quoted by makers are: two cwt., 2s. 5½d. per lb.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ¾d. per lb. less. Small bottles extra, from 5d. per lb. for ¼-lb. bottles to 1d. per 2-lb. bottles. Carriage paid on minimum cwt. lots.

CHLORAL HYDRATE.—Market continues steady, duty paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Fair business, market steady: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Quotations are unchanged: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Values about steady, business modest: bulk quantities, in 25-kilo demijohns, 1s. 8d.; small parcels, 1s. 9d. to 2s. per lb., ex store, as to quantity.

EPHEDRINE HYDROCHLORIDE.—It now seems difficult to obtain bulk quotations from the Continent. On spot there may be small odd lots to be picked up at comparatively cheap prices, but the home makers' prices for contracts would now be in the region of 4s. 3d. to 4s. 6d. per oz.

HEXAMINE.—Makers' prices for bulk quantities are steady: B.P. powder at about 1s. 2½d.; free-running crystals, from 1s. 3d. to 1s. 6d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, one cwt., 1s. 4d.; 14 lb., 1s. 8d.; smaller parcels, up to 2s. per lb., carriage paid.

LACTIC ACID (B.P.).—Limited inquiry: quantities in carboys: 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 2s. per lb., as to quantity.

MERCURIALS.—Makers' scales of prices continue firm: not less than one cwt., ammoniated, B.P., lump, 5s. 5d.; powder, 5s. 7d.; bi-



chloride, B.P., lump, 4s. 8d.; powder, 4s. 4d.; chloride, B.P., 5s. 5d.; yellow oxide, B.P., 5s. 10d.; persulphate, white, B.P.C., 5s. 7d.; sulphide, black (hyd. sulph. cum sulph., 50 per cent.), 5s. 6d.; less than one cwt., ammoniated, B.P., lump, 5s. 6d.; powder, 5s. 8d.; bichloride, B.P., lump, 4s. 9d.; powder, 4s. 5d.; chloride, B.P., 5s. 6d.; yellow oxide, B.P., 5s. 11d.; persulphate, white, B.P.C., 5s. 8d.; sulphide, black (hyd. sulph. cum sulph., 50 per cent.), 5s. 7d. per lb. Special prices for large quantities.

**METHYL SALICYLATE.**—Makers' quotations unchanged, fair business: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 2¾d.; small quantities in bottles, up to 2s. per lb.

**PHENACETIN.**—Fair business at current cheap prices, market steady: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. up to 3s. per lb., as to quantity.

**PHENAZONE.**—Small business at keen prices: spot offers at about 6s. to 6s. 6d. per lb., as to quantity.

**POTASSIUM PERMANGANATE (B.P.).**—Dealers' prices are keen for large bulk orders: in drums, 9d. to 9½d.; smaller packings, 10d. to 1s. per lb., as to quantity.

**POTASSIUM SULPHOGUAIACOLATE.**—British and foreign material quoted at about 6s. to 6s. 2d. per lb., as to quantity.

**QUININE SALTS.**—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s.; alkaloids, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

**RESORCIN.**—British material only available for this market: crystals one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. 6d. per lb.

**SACCHARIN.**—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

**SALICYLIC ACID (B.P.).**—Fair business, market steady: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

**SODIUM SALICYLATE (B.P.).**—Fair business, with makers' prices about steady: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

**SULPHONAL.**—Dealers' spot quotations are keen, business quiet: spot, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller quantities, up to 16s. 7d. per lb.

**TARTARIC ACID (B.P. CRYSTALS).**—Quoted values unchanged: British makers quote 11½d. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

**THEOBROMINE.**—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium, salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb tins free, smaller packages extra.

### Crude Drugs, etc.

**ACONITE ROOT.**—Some *Napellus* root, shortly landing, quoted at 77s. 6d., ex wharf. Japanese, spot, 47s. 6d. to 50s. per cwt., ex store.

**AGAR.**—A considerable business has been done: spot supplies short and firmly held. Japanese shippers' quotations are very strong, tending dearer. Editorial comment on p. 169: spot, Kobe No. 1, 3s. 3d. to 3s. 4½d.; No. 2, 2s. 10½d. to 3s.; Yokohama No. 1, 2s. 10d. per lb.; shipment, Kobe No. 1, 2s. 11d. to 3s.; No. 2, 2s. 9d.; Yokohama No. 1, 2s. 7d. per lb., c.i.f. February-March and March-April shipment.

**ALOES.**—Rather more inquiry for Curaçao this week, with spot and forward steady: Cape, spot, 60s. to 62s. 6d., as to quality; shipment, prime, 57s. 6d. per cwt., c.i.f. Curaçao, spot, 95s. to 115s., as to quality; shipment, 90s. to 92s. 6d. per cwt., c.i.f.

**ANTIMONY.**—Market continues firm: English regulus, £77 to £78. Chinese, crude, £35 per ton, ex store; shipment, February-March, £32, c.i.f.

**ARNICA FLOWERS.**—Dealers are quoting at 1s. 2d. per lb. for small parcels, ex store.

**BALSAMS.**—A good inquiry for *Copaiba*, with prices sharply dearer and now up to 1s. 9d. to 1s. 10d. per lb. *Canada*, 2s. 8d. *Peru*, 5s. 3d. per lb., ex store.

**BARBASCO ROOT.**—This market remains distinctly quiet: spot root, testing about 7.2 rotenone, 1s. 1d. per lb., ex store.

**BELLADONNA.**—Occasional small business on spot: leaves, 57s. 6d.; root, 47s. 6d. per cwt., spot.

**BENZOIN.**—A routine business is reported, with spot prices still cheap. Really good seconds at £5 and thirds at £4 per cwt., ex store.

**BUCHU.**—A few bales reported sold on spot, with rounds at 2s. to 2s. 2d., as to quality. Only a few bales of ovals, rather stalky, at about 1s. 9d. per lb. Shipment, for new crop, is indicated at 1s. 6d. to 1s. 7½d. per lb., c.i.f.

**CAMPHOR.**—A very fair business. Japanese report the manufacturing BB grade has been advanced from £8 to £8 10s. per 100 lb. Japanese, spot, tablets, 2s. 6d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 3d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f. English refined flowers: one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent, tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz. and ¼ oz., 3s. 6d. per lb. Contracts at special prices.

**CANTHARIDES.**—Steady market, business limited to small spot orders: spot, Russian, 6s. to 6s. 3d. Chinese, 1s. 10d. to 2s. per lb., as to quantity; shipment, 1s. 8d. per lb., c.i.f.

**CARDAMOMS.**—The spot market is nominal owing to lack of supplies of all descriptions. Shipment, Aleppy greens, 3s. 4d., c.i.f. Mangalore, 6s. per lb., c.i.f., and offers restricted.

**CASCARA SAGRADA.**—Most spot holders are keeping their prices fully steady, not anticipating any weakening at the source when this year's peel comes along: spot, 1933 peel, 65s.; 1936 peel, 56s. 6d. per cwt.; shipment, 1934 peel, 56s.; 1936 peel, 51s. per cwt., c.i.f.

**CELERY SEEDS.**—Values are fully steady, with small parcels selling at 1s. per lb., ex store.

**CHAMOMILES.**—There has been a moderate inquiry, and prices are fully steady at 100s. to 130s. per cwt., as to quality, ex store.

**CLOVES.**—Values are keeping fully steady, market rather quiet: Zanzibar, spot, 8½d.; shipment, February-April, 8½d. per lb., c.i.f. Madagascar, in bond, 8½d.; shipment, February-April, 8½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended January 30 were 106 and the deliveries 141, leaving a stock of 2,003. From January 1 to date the landings of Zanzibar have been 581 and the deliveries 254. Landings of Madagascar for the week ended January 30 were 720, and the deliveries 42, leaving a stock of 2,540. From January 1 to date the landings of Madagascar have been 1,481 and the deliveries 274 packages.

**COCOA BUTTER.**—Market continues firm at the recent advances: prime English, 1s. 5½d. to 1s. 6½d. per lb.; foreign, 1s. 3½d. to 1s. 4½d. per lb., as to quantity.

**COCONUT (DESICCATED).**—A further slight weakening in values; market quiet: spot, fine, 32s. 6d.; medium, 31s. per cwt.; shipment, halves, February-March, 29s. per cwt., c.i.f.

**COD-LIVER OIL.**—Bergen reports shipment market firm and again quoted dearer: finest Lofoten steam refined, non-freezing, medicinal oil, 100s. to 102s. per barrel, c.i.f. London. Spot, in small lots, about 128s. per barrel, ex store. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 92s. to 100s. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

**COLCHICUM.**—Dealers are offering root at about 42s. 6d. per cwt. and seed at 10d. per lb., ex store.

**COLOCYNTH PULP.**—Spot supplies have been cleared, except for odd lots. New crop for shipment, U.S.P. quality, May-June shipment, 1s. 10d. to 1s. 11d. per lb., c.i.f., with some business reported.

**DANDELION ROOT.**—Spot supplies of clean foreign root are available at about 80s. per cwt., ex store.

**DERRIS ROOT.**—Inquiry is rather disappointing. Shipment offers for bulk quantities continue at about 9d., c.i.f., for basis 17 per cent. ether extract. Spot parcels about 11d., ex store, as to test.

**DRAGONS BLOOD.**—Fair business, market fully steady forward: spot, fair to good reboiled lump, £24; medium, £20; pickings, fair, £16 per cwt., ex store.

**ERGOT.**—There may be a few bags of Russian on spot, for which 5s. 6d. to 5s. 9d. is wanted. Portuguese/Spanish, if available, 6s. 3d. to 6s. 9d. per lb., as to seller. No reliable shipment offers of any description. The shortage is acute on spot.

**GENTIAN.**—This market continues quite firm, with root, described as Continental, held for 57s. 6d. per cwt., ex store. Shipment offers firm at 55s., c.i.f.

**GINGER.**—West African is steadier forward, market quiet. West African, spot, 62s.; shipment, February-April, 49s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 87s. 6d. to 90s.; small grinding, 62s. 6d. per cwt., in bags, ex store.

**GUM ACACIA.**—Market continues up and down, with the source quoting easier at the moment: spot, Kordofan cleaned sorts, 46s. 6d.; bleached, No. 1, 105s.; extra, 117s. 6d. per cwt.; shipment, Kordofan cleaned sorts, 44s. per cwt., c.i.f.

**HENBANE.**—A little business on spot, with dealers quoting at about 80s. per cwt., ex store.

**HONEY.**—Values are being steadily maintained, despite the rather marked lack of demand. Jamaican, 38s. to 50s. for dark manufacturing to palish set. Californian, 49s. to 51s., duty paid. Canadian, 48s. St. Domingo, darkish, 36s. per cwt., ex store.

**HYDRASIS.**—Values are fully steady, business of small account: spot, 12s. 9d. to 13s., as to quantity; shipment firm, 12s. 9d. per lb., c.i.f.

**IPPECUANHA.**—Rather less doing this week, tone not quite so strong. Matto Grosso, B.P. test, 7s. to 7s. 3d. per lb.; shipment, February, 6s. 9d., c.i.f.

**KOLA NUTS.**—Some bags of African halves are available from 3½d. to 4d. per lb., ex store.



**LOBELIA HERB.**—A small spot business reported. Quoted at 7½d. to 7½d., spot, and shipment at about 7d. per lb., c.i.f.

**LYCOPodium.**—Dealers are quoting spot supplies steadily at about 4s. per lb., ex store.

**MANNA.**—Some finest selected flake, in 1-lb. tins, is now quoted down to 3s. 6d. per lb., ex store.

**MENTHOL.**—A good business is recorded, with prices dearer on the week. K/S brands, spot, 13s. to 13s. 3d.; in bond, 11s. 9d. Japanese shippers are firm with offers ranging from 12s. to 12s. 3d., c.i.f., for February-March. There are re-sellers at 11s. 10½d., c.i.f. CHINESE, B.P., is quoted on spot at 12s. 9d., and finds a steady sale. English synthetic is quoted unchanged from 7s. 6d. to 10s. 6d. per lb., as to quality and quantity.

**MERCURY.**—First hands report the spot and forward market firm and unchanged, with very limited supplies coming to hand. Spanish/Italian metal quoted at 69 dollars 50 cents per bottle, f.o.b. Continent; £14 3s. 6d., c.i.f. London; spot, in small lots, £14 6s. per bottle, ex store.

**MYRRH.**—Supplies are very short and any available would be in the region of £6 10s. to £7 per cwt., as to quality.

**OPUM.**—Average small spot business at former values: spot, Turkish, 1s. 3d. per unit, landed and duty paid. Persian, 1s. per unit, in bond.

**ORANGE PEEL.**—Some new crop thin cut Tripoli, for shipment, is offering at 11d. per lb., c.i.f.

**PEPPER.**—Values are about level on the week, market rather quiet. Lampong, in bond, 3½d.; shipment, March-May, 3½d.; April-June, 3½d., c.i.f. Tellicherry, spot, 4½d.; shipment, February-April, 38s. c.i.f. Aleppy, spot, 4½d.; shipment, February-April, 38s., c.i.f. White Muntok, in bond, 6d; March-May, 5½d. per lb., c.i.f.

**PIMENTO.**—Business slow, with the forward market slightly cheaper; spot, 8½d. per lb.; shipment, February-April, 71s. 6d. per cwt., c.i.f.

**RHUBARB.**—Quite a good sale of rough round on spot with all cleared except a slightly wormy parcel, which is held firm at 1s. 8d., ex store. One or two parcels are reported on the way. Shensi is fully steady at 3s. 9d. to 4s. 3d., as to quality, with pickings at 2s. 6d. to 2s. 9d. per lb., ex store. No Canton available.

**RUBBER.**—Values are about unchanged on the week, business moderate. Standard ribbed smoked sheet, spot, 10½d.; February, 10½d.; March, 10½d.; April-June, 10½d.; July-September, 10½d.; October-December, 10½d. per lb.

**SAFFRON.**—Quite a number of small offers reported from the Continent, but it is not certain whether the goods are available or if the quality is satisfactory. Meanwhile spot continues steady at famine prices.

**SARSAPARILLA.**—Market is steady, routine spot business: spot, Jamaican grey, 1s. 2d. to 1s. 3d.; native, mixed colours, 10d. to 1s. per lb., as to quantity, spot.

**SEEDS.**—ANISE.—Bulgarian, 31s. spot, duty paid. CANARY.—Market unchanged. Spot, Mazagan, 20s.; Turkish, 25s. 6d.; Plate, 26s.; and Spanish, 55s., all duty paid. CARAWAY.—Dutch, 36s., spot, duty paid; 31s. 6d. quoted f.o.b. Holland. CORIANDER.—Market dearer. Morocco on spot now quoted at 20s. 6d., duty paid. For February shipment, sellers' idea is 18s. 6d., c.i.f. CUMIN.—No Malta offering on spot. Morocco is 32s. 6d., spot, duty paid, and 30s., in bond; 28s. 9d. c.i.f. quoted for February-March shipment. FENNEL.—Indian offered at 31s., spot. FENUGREEK.—Morocco on spot is 14s. 6d., duty paid; 11s. 6d. c.i.f. quoted. MUSTARD.—English, 22s. 6d. to 33s. per cwt., according to quality.

**SENEGA.**—Market has been quieter, but recent values are being maintained. Spot, from 2s. to 3s. 1d.; shipment, 2s. 1d. per lb., c.i.f.

**SENNA.**—Inquiry for Tinnevely from home and export buyers has been fair, with spot quotations for good green leaves as follows: No. 1, 5½d.; No. 2, 3½d.; No. 3, 2½d. per lb. Hand-picked Tinnevely pods: Palish quality is getting scarce at 5d. to 5½d. per lb., with darkish grades offering down to 3½d. per lb. Alexandrian: The spot market continues bare of best bold hand-picked pods, but a few early supplies of new crop may be expected here in the near future. Ordinary to medium old crop qualities are available at 1s. 3d. to 2s. 6d. per lb., ex wharf, London.

**SHELLAC.**—Market is easier, quiet business: spot, standard TN orange, 52s. to 57s.; fine orange, 65s. to 125s.; pure button, 62s. 6d. to 65s. per cwt., spot. For delivery, TN, March, 52s.; May, 54s.; August, 55s. 6d. For arrival, TN, February-March, 51s. per cwt., c.i.f.

**SLIPPERY ELM BARK.**—A small supply of slabs is available at 1s. 2d., spot. Grinding quality is quoted at about 6½d. per lb., ex store. No shipment offers.

**SQUILL.**—Supplies of good white are offering at 30s., and manufacturing quality at 25s. per cwt., ex store.

**STROPHANTHUS SEED.**—Spot supplies are quoted from 3s. to 3s. 3d. per lb., as to quantity, in cases, for genuine Kombé 100 per cent.

**TONKA BEANS.**—Some fair frosted Para beans are quoted at 3s. 6d. to 3s. 7½d., and Angostura at about 8s. to 8s. 3d. per lb., ex store.

**TRAGACANTH.**—Firm conditions continue in this market, and prices asked show further advances, ranging from 5 to 10 per cent. on the week. Druggists' fine white ribbon, £75. Considerable interest in grades ranging from £10 to £20 per cwt., ex store. One or two small parcels arrived recently.

**VALERIAN ROOT.**—The market is rather quiet, with spot root steady as quoted at 35s. per cwt., ex store.

**WAX.**—BEES'.—Market continues busy with supplies at a very low level; market is firm, spot and forward. Calcutta, bleached, spot, 150s.; shipment, February-March, 150s.; ordinary quality, spot, 135s.; shipment, 130s., c.i.f. Abyssinian, no spot offering; shipment, February-March, 130s. Benguella, spot, 145s.; shipment, 130s., c.i.f. Conakry, spot, none offering; shipment, none offering. Dar-es-Salaam, spot, 142s. 6d.; shipment, 145s. per cwt., c.i.f. CARNAUBA.—Market has been rather quiet; spot supplies limited. Fatty grey, spot, 170s.; shipment, February-March, 166s., c.i.f. Chalky grey, spot, 167s. 6d.; shipment, February-March, 162s. 6d., c.i.f. Primeira, spot, good quality, 220s., f.a.q., 215s.; shipment, February-March, 212s. 6d., c.i.f. Mediana, spot, 210s.; shipment, 205s., c.i.f.

### Essential Oils, etc.

QUITE a good business continues in a number of products, with values steady at the recent advances. Further increases this week in Almond (foreign), Dutch Caraway, Cassia, Ho (Shiu), French Guinea Orange, Japanese Peppermint and Wormseed.

**ALMOND.**—Continental prices have advanced and spot has moved in sympathy. English oil steady: English made, cwt. lots, 3s. 5d.; smaller parcels, up to 3s. 7d. per lb.; foreign, cwt. lots, 3s. 5d.; smaller parcels, 3s. 7d. per lb.

**ANISE (STAR).**—Shipment offers continue very restricted and at full figures. The spot market is firm as quoted, fair business: spot, leads, 3s. 7½d.; tins, 3s. 6d.; drums, if available, 3s. 5d. per lb. ex store; shipment, leads, nominal; tins, 3s. 1d.; drums, 3s. per lb., c.i.f.

**BAY.**—Fully steady as quoted, tending dearer: 49 to 50 per cent., 4s. 9d. to 4s. 10d.; 59 to 60 per cent., 5s. to 5s. 1½d. per lb., as to quantity.

**BERGAMOT.**—There has been no shipment offers from the Consortium during the past week with the value nominally unchanged at 13s. 6d. per lb., c.i.f. Business on spot has not amounted to much, but holders' prices are well maintained at 13s. to 13s. 6d. per lb., as to brand and quantity.

**BOIS DE ROSE.**—The shipment market for Brazilian continues idle with no offers. There are spot sellers of restricted quantities at 6s. to 6s. 3d. per lb., ex store.

**CAJUPUT.**—Market is steady at last week's advance: B.P., 2s. to 2s. 3d. per lb. as to quantity; shipment, 1s. 7d., c.i.f.

**CANANGA.**—Occasional spot business with quotations irregular and in the region of 6s. 3d. to 6s. 6d. per lb.; shipment offers at about 6s., c.i.f.

**CARAWAY.**—Dutch oil shows a further advance, market very steady with fair business moving: Dutch rectified, 8s.; crude, 7s. 7d. per lb., landed and duty paid, for fair quantities.

**CASSIA.**—The spot value for good quality oil is fully 3s. 2½d. to 3s. 3d. per lb. with inferior oil slightly cheaper. Shipment is quoted at about 2s. 9d. for drums and 2s. 10d. per lb., c.i.f., for leads.

**CEDAR LEAF.**—Dealers report only small inquiry with their prices for spot oil steady at 4s. 9d. to 5s. per lb., as to quantity.

**CEDARWOOD.**—Last week's higher prices for American oil are maintained. African oil continues at the cheaper figures: African, in drums, 1s.; smaller packages, up to 1s. 3d. per lb. American, in drums, from 1s. 3½d. per lb.; smaller packages, up to 1s. 6d. per lb.; shipment, 1s. 1½d. per lb., c.i.f.

**CINNAMON LEAF.**—Shipment offers of Ceylon oil continue restricted and firm at 3s. 4d., c.i.f. On spot, holders are firm at 3s. 6d. for drums, with small re-packed parcels up to 3s. 10½d. per lb., ex store.

Exports of Ceylon cinnamon leaf oil during the period January-September, 1936 totalled 144,940 lb. valued at Rupees 301,733, compared with 155,167 lb. valued at Rupees 224,848 in the corresponding period of 1935. The United States of America took approximately 75 per cent. of the total shipments; the arrivals in the United Kingdom for the nine months of 1936 totalled 11,933 lb.

**CITRONELLA.**—Both of these shipment markets are rather easier and the tone is not so good with business quieter: Ceylon, spot, drums, 1s. 10d. to 2s.; smaller parcels, up to 2s. 3d.; shipment, drums, 1s. 9½d. per lb., c.i.f. Java, spot, drums, 2s.; smaller parcels, up to 2s. 4½d.; shipment, drums, 1s. 9d. per lb., c.i.f.

**CLOVE.**—Prices, spot and forward, are firm at last week's advance for Madagascar oil: Madagascar, spot, drums, 4s. 7½d.; smaller packings up to 5s. per lb. shipment, limited offerings at 3s. 10½d. per lb., c.i.f.; English distilled oil, cwt. lots, 5s. 6d. per lb.

**EUCALYPTUS.**—Market continues firm, business quieter: Spanish oil available. Australian, 70 to 75 per cent., 1s. 7½d., in tins, and 1s. 7d. in drums; 80 to 85 per cent., 1s. 8½d., in drums, per lb., landed; higher prices for small lots on spot; shipment, February-March,



70 to 75 per cent., 1s. 5d.; 80 to 85 per cent., 1s. 6d. per lb., c.i.f.; Spanish, 70 to 75 per cent., 1s. 7½d., landed.

GERANIUM.—These products appear to be receiving but little attention; shipment prices steady with spot values varying as to quality: Bourbon, spot, 17s. to 18s. 6d.; shipment, 16s. 9d., c.i.f. Algerian, spot, 16s. to 16s. 6d.; shipment, 15s. 3d. per lb., c.i.f.

GINGERGRASS.—No shipment offers. Any oil available on spot would be about 7s. 6d. per lb., ex store.

GRAPE-FRUIT.—Californian oil is available on spot, averages about 11s. to 12s. 6d. per lb., ex store, as to quantity.

HO (SHU).—Complete absence of shipment offers continues and, in consequence, spot holders have again advanced their prices to 2s. 3d. to 2s. 9d. per lb., as to quality and quantity.

JUNIPER BERRY.—Market has been dull, steady: spot quoted from 3s. to 3s. 3d. per lb., as to quantity.

LAVENDER.—The source reports a very firm market for Lavandin at still higher prices, touching 11s., c.i.f.: spot holders quoting from 9s. 9d. to 11s. per lb. French Lavender, 38 to 40 per cent., steady from 15s. 6d. to 18s. 6d., with blended oil at cheaper prices.

LEMON.—Due to lack of interest on the part of buyers on account of the recent high values, and the very few offers received from the source during the past week, it is difficult to define the shipment market. Early on the one or two quotations indicated slightly easier terms and since then there has been little definite news. The last figure mentioned was 14s., c.i.f. On spot business is also slow, but holders of good quality oil are maintaining their prices at 13s. to 15s. 6d. per lb., as to brand and quantity. Californian: no cold-pressed available. Practically all distilled, regular quality, has been sold; nominal at 8s. 4d. per lb., landed, in drums.

LEMONGRASS.—The shipment market is slightly easier at about 1s. 10d. Spot oil would be about 2s. to 2s. 2d. per lb., ex store.

LIME.—West Indian distilled oil is steady on spot from 21s. 6d. to 22s. 6d. per lb., as to quantity.

MANDARIN.—Good quality new crop oil is steady on spot at about 17s. 6d. to 19s. per lb., ex store; shipment, about 19s., c.i.f.

NUTMEG.—Limited business in small parcels on spot with American oil quoted at 5s. 10d. to 6s. per lb., ex store.

ORANGE.—Sicilian sweet oil continues of little interest here; shipment, about 13s., c.i.f.; and bitter oil, about 9s. 10d., c.i.f. West Indian oil, 6s. 9d. to 6s. 10½d. per lb., c.i.f., in drums. The shipment market for French Guinea oil continues firm and at a further advance at fully 5s., c.i.f. Spot holders are requiring up to 5s. 6d. for drums and are not anxious to sell; re-packed in tins, from 5s. 9d. per lb., ex store. Good sales of Californian and practically nothing now offering. Californian: spot, small drums, 4s. 2½d.; tins in cases, 4s. 3½d.; single cases, 4s. 6d. per lb., ex store.

PALMAROSA.—The shipment market remains idle and nominal. Very limited spot supplies are quoted in the region of 10s. per lb., as to seller. Shipment indicated at 11s. but no offers.

PATCHOULI.—The shipment market for Singapore is firm, tending dearer, at 16s. 6d., c.i.f. Spot holders are not selling at less than 17s. 3d. for drums and 17s. 6d. for smaller lots.

PEPPERMINT.—A steady business with the market dealer and firm at the source: Japanese, spot, 5s. 4½d. to 5s. 6d. per lb. Good demand for afloat parcels, quoted at 5s. 2d., c.i.f. Japanese shippers quote February-March, 5s. 6d. to 5s. 9d., c.i.f., with re-sellers of January-March at 5s. 4d. and buyers at slightly less. CHINESE oil on spot sells slowly at about 5s. 3d. per lb. The American natural oil is quoted for shipment at about 2 dollars 30 to 45 cents per lb.; c.i.f. spot supplies are offered at comparatively cheap prices, with business quiet.

PETITGRAIN.—Rather more inquiry with values quite steady: spot, cases, 4s.; smaller parcels, up to 4s. 4½d. per lb.; shipment, 3s. 10d. per lb., c.i.f.

ROSEMARY.—The very limited spot supplies of good-quality Spanish oil are held for about 3s. 4½d. to 3s. 10½d. per lb., as to quantity, ex store. No shipment offers.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; oil described as British Indian at very competitive prices. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, 7s. 3d. per lb. Australian oil continues steady: five cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

SASSAFRAS.—Dealers are quoting spot natural oil from about 3s. 5d. to 3s. 8d. per lb., as to quantity. Artificial oil at cheaper prices.

SPEARMINT.—Market is quiet: spot, about 8s. 10d. to 9s.; shipment, 8s. 4d. per lb., c.i.f.

SPIKE.—At current high values the spot market is steady, with supplies very short: spot, 5s. 9d. to 6s. 6d. per lb. No shipment offers. French, spot, 7s. 6d. to 7s. 9d. per lb., as to quantity.

VEDEVERT.—Not much inquiry about: Bourbon, spot, 27s. 6d. to 30s.; shipment, 22s. 6d., c.i.f.

WORMSEED.—Shipment continues at last week's advance at 9s. 9d., c.i.f. Spot is dearer and now up to about 9s. 9d. to 10s. per lb., ex store.

## Commercial Notes

EGYPTIAN HENNA EXPORTS.—Shipments during the period January-August, 1936, totalled 465,000 kilo, valued at £E11,630, compared with 367,000 kilos, valued at £E9,081, in the corresponding period of 1935. France, United States of America and the United Kingdom were the chief buyers.

MALAY STATES DERRIS PLANTATIONS.—It is stated that 900 acres are under derris cultivation in the Kinta and Batang Padang districts of Perak. The centre of the industry is at Malim Nawar, and an authority refers to the plants grown in the Kinta Valley as *Derris Malacensis*, Kinta type. They are stated to be low in rotenone content, but yield a moderately high ether extract.

BULGARIAN ROSE OIL INDUSTRY.—The first returns issued by the Agricultural and Co-operative Bank of Bulgaria give the total flower crop for 1936 as 8,000,000 kilos as against 12,000,000 for 1935. Oil produced was 1,700 kilos against 2,400 last year. The quality is stated to be fine and unadulterated. The process of reduction of acreage continues slowly, in accordance with the recent legal provisions. Over 80 per cent. of the 1936 production was distilled by the local co-operative associations under bank control. The bank holds a stock of 4,000 kilos of oil and the basis price for bank sales is now fixed at 4,500 French francs per kilo net, c.i.f. foreign ports, a reduction of 500 francs.

U.S.A. ESSENTIAL OIL IMPORTS.—Arrivals from all sources for the period January-September, 1935 and 1936, were as follows:—

Product	1935 (9 months)		1936 (9 months)	
	Quantity	\$	Quantity	\$
Cassia and cinnamon ... lb.	333,000	250,000	341,000	222,000
Geranium ... lb.	72,000	336,000	73,000	335,000
Otto of rose ... oz.	23,000	168,000	21,000	151,000
Bergamot ... lb.	65,000	86,000	86,000	134,000
Citronella and lemongrass ... lb.	1,523,000	434,000	1,346,000	312,000
Lavender ... lb.	118,000	342,000	140,000	480,000
Lemon ... lb.	104,000	99,000	104,000	117,000
Orange ... lb.	119,000	115,000	146,000	151,000
Sandalwood ... lb.	2,000	6,000	3,000	10,000
Lime ... lb.	42,000	194,000	38,000	205,000
All other ... lb.	2,036,000	968,000	2,004,000	993,000

### Sudan Gum Acacia Exports

BOXALL & Co. report shipments in November 1936 were 1,552 tons, compared with 1,345 tons in November 1935. Shipments during January-November 1936 totalled 20,963 tons, compared with 21,838 tons during the corresponding period of 1935. The chief destinations were as follows:—

Destination	1935			1936		
	Jan.-Oct.	Nov.	Total	Jan.-Oct.	Nov.	Total
Great Britain ...	5,275	128	5,403	4,691	209	4,900
U.S.A. ...	3,332	196	3,528	3,469	360	3,829
France ...	1,875	100	1,975	2,826	133	2,959
Germany ...	1,660	204	1,864	2,338	272	2,610
Italy ...	1,716	138	1,854	216	1	217
Belgium ...	1,294	246	1,540	1,270	117	1,387
Japan ...	1,354	—	1,354	983	82	1,065
Holland ...	611	30	641	820	80	900
Spain ...	506	48	554	159	—	159
Sweden ...	436	100	536	408	28	436
Norway ...	84	1	85	43	4	47
Australia ...	656	3	659	477	16	493
New Zealand ...	94	—	94	34	1	35
China ...	226	33	259	233	41	274
Canada ...	195	10	205	224	—	224
British India ...	15	1	16	76	90	166
Denmark ...	93	21	114	139	24	163
Finland ...	112	3	115	116	15	131
Poland ...	56	8	64	108	8	116
Rumania ...	41	5	46	111	7	118
Turkey ...	19	11	30	39	—	39
Greece ...	62	7	69	78	9	87
Egypt ...	306	21	327	142	16	158
South Africa ...	12	—	12	44	10	54
Dutch Indies ...	25	—	25	27	4	31
Argentina ...	76	—	76	29	—	29
Brazil ...	140	12	152	109	12	121
Uruguay ...	22	—	22	21	—	21
Mexico ...	32	—	32	27	—	27
Other countries in America	20	7	27	45	—	45
Other countries ...	148	12	160	109	13	122

The export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
November, 1935 ... tons	1,097	32	216	1,345
November, 1936 ... tons	1,330	18	204	1,552
January-November, 1935 ... tons	19,649	190	1,999	21,838
January-November, 1936 ... tons	19,066	216	1,681	20,963



# Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## The New C. & D. Students' Competition

SIR,—I was much interested in your editorial article in last week's issue of the *C. & D.* on the new Students' Competition, and I shall look forward to the results. Many years ago I derived very valuable help from your "Corner for Students," at that time conducted by the late Mr. Moss. On reading last week's note I looked up my first prize, and I see it was won almost fifty years ago (May 1887). During the two or three years in which I took a spasmodic interest in the "Corner," you changed the "mixed powders" example to alloys; this was a new tax on one's efforts and caused me to make many references to alloys and metals in general, therefore widening my knowledge of chemistry. Now this Competition is a similar change which I hope many of the new generation will take advantage of, especially to read and write out the notes to each competitor given, for in the original competition I found this very valuable. The present student has many more opportunities than those who lived in the 'eighties, when hours of work were long and there was no weekly half-holiday, and when one has now a nice "lab." to work in instead of an improvised corner or a room or outhouse. I sincerely hope you will have many entrants, and that those who apply for specimens will send in the result of their work even though they seem to get a "next to nothing" result; eventually each in turn may top the list, I am sure.—Yours faithfully,

J. G. WALLBRIDGE.

Liverpool.

## Renewal of Wine Licences

SIR,—Will you allow me to draw the attention of all chemists holding wine licences to the importance of seeing that on the renewal of their licences at the coming Licensing Sessions the licence is not marked "Medicated"? It will be remembered that at the Brewster Sessions, Stratford, E., held in March 1936 the Essex Licence Holders' Protection Society objected to the renewal of the wine licence I held for my premises at Dagenham, on the ground that it was for medicated wines, whereas I had sold port wine, sherry and even cocktails. The barrister engaged to present the case in the court explained to the magistrates the alcoholic strength of port, sherry and cocktails, pressing that my licence was only for the sale of medicated wines; on the strength of these representations the magistrates postponed the renewal of the licence which I had held for ten years, and on the following Sunday I was pilloried in the Sunday Press as the "Chemist Who Sold Cocktails." Then, on March 12, a member of Parliament asked in the House of Commons if the Chancellor of the Exchequer was aware that wines and cocktails were admitted to have been sold "illegally" during the last ten years under a licence to sell medicated wines at Dagenham, and if he was satisfied that the system of inspection by Excise officers was adequate to prevent a repetition of the "prolonged offence." Mr. Chamberlain replied that Excise wine licences could not legally be limited to the sale of medicated wines. . . . This reply by the Chancellor of the Exchequer clearly shows that a chemist who holds an Excise wine licence is entitled to sell all wines, and that the magistrates are acting *ultra vires* in attempting to restrict the licence to medicated wines. This limitation has been submitted to for such a number of years that it is important, in view of Mr. Chamberlain's reply, that a special effort should be made this year to have the injustice removed once and for all.

Yours truly,

C. BAYLEY.

Uppingham.

## A Cure for Destamping

SIR,—We are so accustomed to the idea of a tax on "patent" medicines that we seldom, perhaps, ask ourselves why medicines (of all things) should be so treated when, for example, we long refused to tax foodstuffs. And if proprietary boot polishes, sauces, furniture creams and what not go untaxed, why should proprietary remedies be subject to a duty? The answer is plain. Boot polishes, sauces, and furniture cream are widely believed to serve some useful purpose. The medical profession has always been opposed to patent medicines—except when they are themselves "got at" by the manufacturers. Pharmacists should not allow themselves with

doctors in open hostility to "patents." Principle and interest alike counsel this policy. The trifling percentages we draw from proprietaries are no fitting rewards for pharmacists. And what could be more absurd than the treatment of ailments by newspaper advertisements? As the law now stands there appears to be only one way of fighting the quack medicine traffic—that is, by taxing it heavily, as in the case of far less harmful, indeed of definitely beneficial, alcoholic beverages. How, then, can we circumvent the efforts of manufacturers of proprietaries to evade the duty? It could be done in the following manner. Let the phrase "No proprietary rights are claimed for this preparation" undergo the most literal, exact and stringent interpretation—if necessary, by statutory means. Give no sort of protection against imitation unless the preparation bears a stamp. If certain remedies are to be sold unstamped, let it be made clear that anybody is at liberty to use the formula, the name, the style of packing, so long as no duty is payable and no proprietary rights are claimed. The Exchequer would recover its lost revenue, and an illogical and parasitic trade would be dealt a shrewd blow—one or other if not both.—Yours faithfully,

R. CECIL OWEN.

Chester.

## A West London Competition

SIR,—The West London Branch of the Pharmaceutical Society is conducting a competition for unqualified assistants and apprentices—employed or resident in the area—in order to encourage them in their pharmaceutical studies. The amount of knowledge required is reasonable, and substantial prizes will be awarded to the best competitors. We are anxious that the competition shall be widely known, so that as many as possible of those eligible may participate. Employer pharmacists and managers are asked to encourage their junior staffs to enter. Further particulars may be obtained from the Secretary, 135 Ladbroke Grove, W.11.—Yours, etc.,

CLIFFORD EVANS,

W. T. PRATT.

Hon. General Secretaries.

London, W.1.

## Medicine Stamp Duties Select Committee

SIR,—In a *précis* of evidence submitted to the Select Committee on Medicine Stamp Duties (*C. & D.*, January 30, p. 140) it was suggested that manufacturers should disclose their formulas to a responsible body which would accept or reject them in order to prevent worthless remedies being marketed. If such a body were formed, it would be necessary to define exactly what constituted a worthless remedy. Certain diseases are in the present stage of knowledge termed incurable; but that is not to say that some sufferers may not derive alleviation from an advertised proprietary, neither does it mean that some remedy may not be devised which will prove effective. And there would be the question of the *personnel* of such a body. The only persons who could claim to any training in the therapeutical action of medicines would be members of the medical profession; would they be the proper judges of what is partly a commercial problem? Another point raised was the position of dispensing chemists who may use medicines otherwise dutiable as ingredients in a prescribed medicine. As a dispensing chemist I think we should prefer that proprietary remedies should not be prescribed for extemporaneous dispensing, because of the loss that accrues from broken bulk. The mixing of articles was raised in the evidence given on behalf of the Scottish Pharmaceutical Federation, a point which apparently was not considered important. But the instance of headache powders mixed up with paraffin oil interested me; recently I had some biscuits tainted with paraffin, and investigation showed that some packets of them had been placed on an oily shelf. Some years ago I had occasion to examine a packet of proprietary children's powders which, originally white, were turning yellow. I found they had been stored in a drawer with a sulphide depilatory. This is a case in which the knowledge of the pharmacist would have been useful.

Yours truly,

SEPARATUM (2/2).



## Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

V. W. D. C. (Belgium) (26/13).—SACCHARATED IRON SOLUTION.—It is quite likely that your difficulty arises because the iron oxide was not freshly precipitated, and we think you might care to try the method given in the National Formulary, which is as follows:—

Saccharated ferric oxide contains, in each 100 gm., the equivalent of not less than 2.8 gm. and not more than 3.2 gm. of Fe.

Solution of ferric chloride	...	30 gm.
Monohydrated sodium carbonate	...	11 gm.
Distilled water,		
Sodium hydroxide,		
Sucrose, in powder, each sufficient to make	...	100 gm.

Dissolve the monohydrated sodium carbonate in 150 c.c. of the water. Dilute the solution of ferric chloride with 150 c.c. of the water, and gradually add to it, with constant stirring to the carbonate solution. Decant the supernatant liquid, and wash the precipitate with distilled water until a portion of the washings, when diluted with 5 volumes of distilled water, gives only a slight opalescence with silver nitrate test solution. Collect the precipitate, transfer the magma to a porcelain dish on a water bath, add 50 gm. of sucrose and a sufficient quantity (not more than 5 c.c.) of a 15 per cent. solution of sodium hydroxide to produce a clear solution. Evaporate the mixture to dryness on a water bath, and if necessary add sufficient powdered sucrose to make the product weigh 100 gm.

S. L. E. (Palestine).—HANDKERCHIEF INHALANT.—Either of the formulas below will meet your requirements:—

I		II	
Liq. formaldehyd. (B.P.)...	3 j.	Ol. terebinth. ...	3 ij.
Ol. pini ...	3 j.	Ol. pini abiet. ...	3 ss.
Ol. eucalypt. ...	3 j.	Ol. eucal. cit. ...	3 j.
Conc. carnation essence ...	3 j.	Menthol syn. ...	9 j.
Conc. sweet pea essence ...	3 ij.	Aether meth. (0.735) ...	11 xx.
Conc. wallflower essence ...	3 ij.	Ol. cajuput ...	11 ij.
Alcoh. isoprop. ...	ad Oj.	Alcohol isopropyl ...	ad 3 vj.

W. L. (26/14).—IMITATION GOLD LEAF.—It would not be a satisfactory procedure to coat pills or tablets with imitation gold leaf, since this deteriorates very rapidly on exposure to the air, and by the time the pills reach the public they would in all probability be quite discoloured. Imitation gold leaf is made from copper, zinc and brass, consequently it is likely to contain such impurities as arsenic and antimony, so that if such pills were taken over a lengthy period there would be a risk of poisoning to the patient.

J. P. B. (1/21).—GINGER BEER AND LEMONADE.—There are a large number of recipes for these preparations in "Pharmaceutical Formulas" II, from which the following have been taken:—

Ginger Beer	
Bruised Jamaica ginger	... 4 oz.
Lemons	... 4
Cream of tartar	... 2 oz.
Citric acid	... 1 oz.
Sugar	... 3 lb.
Boiling water	... 4 gall.

Slice the lemons, and put them, with the other ingredients, into a suitable non-metallic vessel. Pour on the boiling water. Macerate overnight, strain, add 2 oz. of yeast and ferment eight hours. Strain again and bottle.

Artificial Lemon Squash	
Sugar	... 2 lb.
Citric acid	... 1 oz.
Water	... 28 oz.

Dissolve and add the following previously prepared:—

Oil of lemon	... 1 dr.
Tincture of lemon peel	... 1 oz.
Tincture of turmeric	... 1 dr.
Caramel	... 20 11

Shake up the tincture of lemon peel with the oil of lemon occasionally during four hours; allow the oil to separate, decant the tincture and mix the latter with the other ingredients, and filter.

S. & H. (8/56).—RECTIFYING ALTERNATING CURRENT.—The chemical rectifier is a cell containing an electrode of aluminium and one of some other metal such as lead or tin, immersed in a solution of certain salts. Of the latter, pure ammonium phosphate is the best for the purpose. The solution should be saturated, and it should be covered with a half-inch layer of paraffin oil. Other salts which can be used are borax and sodium bicarbonate. The input current should be transformed down to a voltage not much in excess of twice the voltage of the cells to be charged, and in any case should not exceed 60 to 80. This method of rectifying alternating electric current is not, generally speaking, a satisfactory one.

S. W. (26/14).—OIL OF IVY BERRIES.—Oil of ivy is a synonym for ol. sambuci, so that the following formula for a fish bait oil will perhaps answer your requirements as an oil of ivy berries:—

Benzoin	...	1 oz.
Olive oil	...	12 oz.

Powder the gum, mix with the oil and macerate for a day; after a preliminary heating on a water bath, strain and add:—

Oil of rhodium	...	1 dr.
Oil of patchouli	...	6 11
Green oil	...	1 1/2 oz.

J. K. I. (2/21).—FOUNDATION LOTION.—We think the following formula will meet your requirements:—

Cetyl alcohol	...	40 gr.
Cholesterol	...	8 gr.
Titanium dioxide	...	5 gr.
Liquid paraffin	...	2 dr.
Alcohol	...	6 dr.
Distilled water	...	4 oz.

A colour such as you desire could be obtained with a solution of acriflavine just dilute enough to give it a fluorescing green.

P. & S. (9/94).—SUPPLY OF ASSISTANTS.—The supply and demand for unqualified assistants appears to keep fairly steady throughout the year, but, if anything, it might be said that the demand is a little less than the supply. During the summer there are many chemists, particularly those in seaside towns, who take on an additional assistant, and in general there is a good demand for both qualified and unqualified during June, July and August. After the summer holiday season things again return to normal, and once more there is a surplus of assistants. Prior to Christmas very little is done in the way of employment changes, but during January and February a good deal often takes place.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," February 5, 1887

### A Registrar's Report

The additions [to the Registers of the Pharmaceutical Society of Great Britain] are, therefore, 120 short of the erasures, so that the end of 1886 shows only 2,198 pharmaceutical chemists and 11,249 chemists and druggists, or a total of 13,447 on the Register, a decrease at which no one will grumble. But it should be observed that the decrease is somewhat misleading. . . . In 1885, allowing for the share of the present year's erasures, 361 were removed from the Register, while 351 qualified by examination. It may be said, therefore, that the figures are almost stationary. . . . The influx to the drug trade is enormously out of proportion with the efflux, if the figures regarding the examinations can be relied upon as an indication. In 1886 there were 1,305 candidates for the Preliminary examination, and of these 632, or 48.5 per cent., were successful. In 1885 the number examined was 1,278 with 690, or 54 per cent., of passes. . . . During the year 1,170 candidates presented themselves for the Minor examination, and of these 398 passed, viz., 304, or 36.9 per cent., of the candidates in London, and 94, or 38.2 per cent., of the candidates in Edinburgh. . . . There were 98 Major candidates during the year, and of these 56 succeeded in passing.



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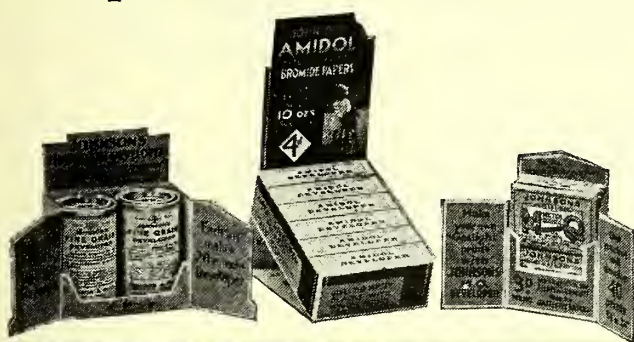
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THE CHEMIST & DRUGGIST DIARY AND YEAR-BOOK, 1936

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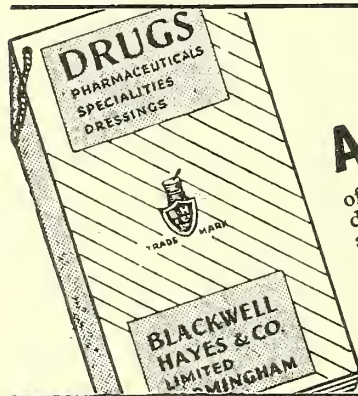
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! If you would like a copy, please write to **BLACKWELL, HAYES & Co., Ltd., Birmingham**, whose 59 years' experience in serving the medical profession is always at your command.



BROMIDES  
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FINE CHEMICALS  
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ESSENTIAL OILS  
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INCORPORATING GEORGE ATKINSON & COMPANY. EST. 1654

Aldersgate Chemical Works, LONDON, S.W.6

Telegrams: Whiffen London

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**STAND No. A.192 Chemical Section, B.I.F.**



**PETROLEUM JELLIES**

WHITE, LEMON, YELLOW, AMBER, RED, GREEN.

**WHITE & COLOURED OILS**

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

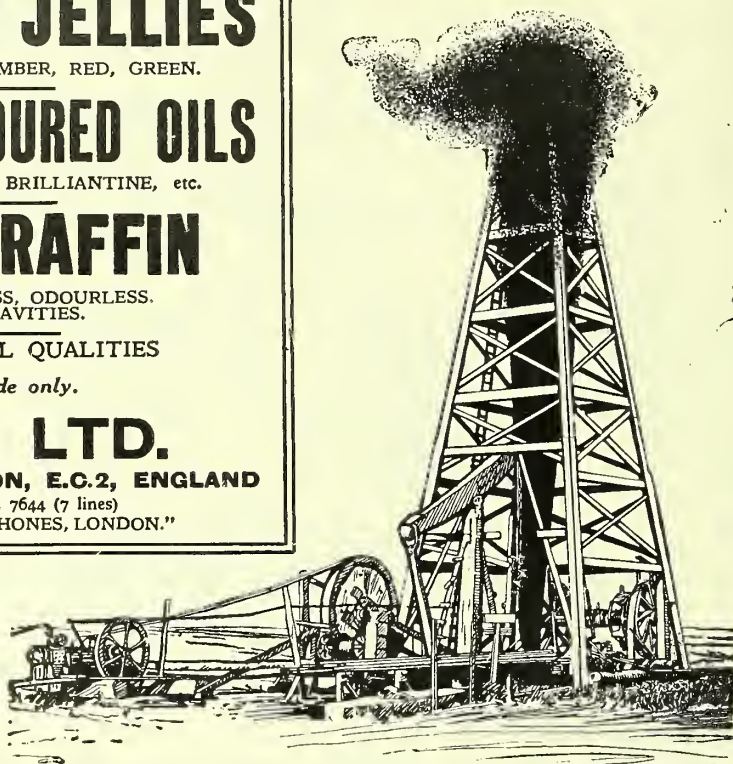
**LIQUID PARAFFIN**COLOURLESS, TASTELESS, ODOURLESS.  
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

*Wholesale Trade only.***STERNS LTD.****16 FINSBURY SQ., LONDON, E.C.2, ENGLAND**

Telephone: NATIONAL 7644 (7 lines)

Telegrams: "CENTUMVIR, PHONES, LONDON."

**50%  
PROFIT****A LINE THAT IS WELL WORTH SELLING  
LOSALL'S SALT**

for GOUT, RHEUMATISM, ECZEMA AND SKIN AFFECTIONS

This chalybeate sulphur salt has a world-wide reputation. It makes an excellent window show—is worthy of your recommendation and is a most profitable line. Ask us for special display terms. Full size sample tin gladly sent on application to

**LOFTHOUSE & SALTMER LTD. — HULL****FERBER CAPSULES****Bulk or Packed**

Apiol Capsules  
 Apiol & Ergotine Capsules  
 Bland's Capsules  
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 Carbon Tetrachloride Capsules  
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 Castor Oil Capsules  
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 Olive Oil Capsules  
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 Quinine Capsules  
 Santal Oil Capsules  
 Tar Capsules  
 Turpentine Capsules etc., etc.

**ROBERT FERBER LTD., Carlton Works, Asylum Rd., London, S.E.15****NEPENTHE.****THE SAFEST AND BEST PREPARATION OF OPIUM**

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property. No substitute may be dispensed when "Nepenthe" is ordered in a prescription. "Nepenthe" comes within the regulations of the Dangerous Drugs Act, 1920.

**FERRIS & COMPANY, LIMITED, BRISTOL**



**A SELF-ASSERTING  
LINE**



**FOR COUNTER, WINDOW, etc.  
DISPLAY & APPEAL**  
Exclusively for sale by  
**CHEMISTS AND DRUGGISTS**

**Tanilo Tea**  
(REGD TRADE MARK)

Especially blended for and does not deteriorate in a  
**VACUUM FLASK**  
but retains its **FLAVOUR, AROMA and COLOUR**  
for many hours, thus providing  
An unsurpassed Beverage All Day, Every Day,  
and Everywhere.  
**ALSO EXCELLENT FOR THE TABLE**

**A bond of constant contact with your customer**

Cartons,  $\frac{1}{4}$  lb. (11 $\frac{1}{2}$ d.) 9/6 per doz.  
 $\frac{1}{2}$  lb. (1/10 $\frac{1}{2}$ ) 18/6 per doz.  
Canisters, 2 lbs. (7/3) 72/- per doz.  
5 lbs. (17/6) 15/- each.

**"Goes Twice as Far"**

Special Offer for initial orders:  
13 Cartons to the doz. ( $\frac{1}{4}$  lb. &  $\frac{1}{2}$  lb.).

Note the **PROFITS**: 1 doz. = 13  $\frac{1}{4}$  lb. Cartons for 9/6  
1 doz. = 13  $\frac{1}{2}$  lb. Cartons for 18/6

**YIELDING OVER 31.0%,  
or more if on parcels of £3**

Subject to 2 $\frac{1}{2}$ % cash 7 days.

OBTAINABLE THROUGH WHOLESALERS OR

**TANILO TEA CO. 7 Carlisle Avenue, E.C.3**  
Tel.: Royal 6102

**That £70 you  
were going to win**

**—done anything  
about it yet?**

Start on *your* competition window display *now*—and increase your profits from Brand's Essence at the same time as you make your attempt to win a valuable cash prize. At this season of the year when there is more illness about than at any other time, think how many of the people who see your window must have friends and relatives ill!—they have all been told the story of Brand's Essence year in and year out in our advertising. With your window display to remind them you *can't help* selling more Brand's Essence to them. And on top of this you may win £70—for remember, the area prize-winner whose display is judged best gets the £50 first prize *as well as* his area prize of £20—so you have a good chance of winning £70 in all. Every entrant whether or not he wins a prize, will receive a complimentary hamper containing 9d. Bottle A.I. Sauce; 5 $\frac{1}{2}$ d. Meat Paste; 5 $\frac{1}{2}$ d. Fish Paste; 7d. Tin of Cream of Chicken Soup; 2s. 1d. 4-oz. Brandox; 10 $\frac{1}{2}$ d. Arabian Sweet Pickle; 2s. 3d. Calf's Tongue; 4d. Table Jelly; 10 $\frac{1}{2}$ d. Salad Cream; 7d. Tin of Oxtail Soup.

### How to enter for this competition

Send for as much Brand's Essence display materials as you will need—showcards, cut-outs, dummy cartons, and display containers: we shall be pleased to supply all that you need **FREE**. Prepare your window display and have the display photographed. If you have not already received an entry form ask our traveller or send for one immediately. Fill it up, and dispatch it *with the photograph* to Brand & Co. The photograph may be any size convenient for you.

### Competition terms

1. A good window display of Brand's Essence (not necessarily occupying an entire window) for at least 14 days commencing before the end of February, 1937.
2. Last day for receiving photographs and entry forms, Monday, March 1st.
3. The judges' decision shall be final and no correspondence will be entered into regarding the competition.
4. Photographs cannot be returned unless accompanied by a stamped addressed envelope.

### £270 IN PRIZES

#### 1st PRIZE £50

6 Special **AREA PRIZES** of £20 each for London with Middlesex, Berkshire and Surrey; South Coast; South West; Midlands and Eastern Counties; N. of England and N. Wales; Scotland.

#### 50 CONSOLATION PRIZES

of £2 2s. 6d. each (8 for each area and 2 extra);

A hamper of Brand's delicacies for every entrant!

**BRAND'S ESSENCE  
Window Display  
Competition  
IS STILL RUNNING**





## PHYSIOLOGICAL TREATMENT OF CONSTIPATION

INTESTINAL GLAND EX. AGAR AGAR  
LACTIC FERMENTS. BILE EXTRACT

DISPLAY TAXOL ON YOUR COUNTER

FROM ALL WHOLESALERS

**CONTINENTAL LABORATORIES LTD.**  
**30 MARSHAM STREET LONDON S.W.1**



The famous "Town Talk" Liquid Silver Polish, Silver Plate Cloth, Liquid Pewter Polish, Chromium Plate Cloth, and Cut Glass Cloth, afford you five ways to a woman's purse. They are consistently advertised in women's newspapers and journals, and their qualities make them quick-selling, repeat-order lines.

Push the "Town Talk" 5, they yield a good profit and bring customers into your shop.

### ORDER DIRECT OR FROM

<b>MANCHESTER:</b> James Woolley Sons & Co., Ltd.	<b>LONDON:</b> Brooks & Warburton, Ltd. May, Roberts & Co., Ltd.
<b>LEEDS:</b> Goodall, Backhouse & Co., Ltd.	<b>LIVERPOOL:</b> Ayrton, Saunders & Co. Ltd.
<b>LEICESTER:</b> E. H. Butler & Son.	

**THE TOWN TALK POLISH CO., MANCHESTER, 10**

**Ergoapiol-(Smith)**  
REG. U. S. PAT. OFF. & FOREIGN COUNTRIES

CONSTANT prescription demand is assured by our continuous and extensive advertising campaign. ERGOAPIOL should be maintained at all times. An adequate stock of ERGOAPIOL should be maintained at all times. Supplied only in packages of twenty capsules each. For the mutual protection of the ethical pharmacist, the physician and our product, the initials "MHS" are embossed on the inner surface of each capsule, visible only when capsule is cut in half at seam as shown.

**MARTIN H. SMITH COMPANY**  
NEW YORK, N.Y., U.S.A.

THOS. CHRISTY & CO., LTD. OLD SWAN LANE, LONDON, E. C. 4  
Agents for Great Britain and Ireland

## HARKNESS, BEAUMONT & CO., LTD.

*Wholesale and Export Druggists,  
Malt Extract Manufacturers.*

**JUNCTION BRIDGE WORKS, LEITH.**

Manufacturers of all kinds of Malt Products, Lactomaltine, Sunray Malt and Malt and Oil, Strenthol Vitamin Malt, Kem-Malt (Malt Extract with Parrish's Food), Kem-Malt and Oil (Malt and Oil with Parrish's Food), Bonum Irradiated Emulsion, Bonum Cod Liver Oil Emulsion, Sunray Vitamin Cream, Liquid Extract of Malt, Special Liquid Cascara, Cascara Cordial, Sunray and Lucca Cream Olive Oils, and General Packed Specialties.

Telegrams: "Mercury" Edinburgh. Telephone: Leith 1326-1328



DR JAILLET'S



**Pepto-Fer**

This valuable Iron preparation is a veritable liqueur. Invaluable in cases of Anaemia debility, digestive derangements and conditions requiring Iron in a readily assimilable form.

Obtainable from your usual wholesaler, or write direct to:—

PEPTO FER JAILLET  
Dept. C.D., DARRASSE FRÈRES  
15 rue Pavée, Paris IV, France.

(4)

Established 1880

**H. E. STEVENSON & Co., Ltd.**

10 Pancras Lane,  
Queen Victoria Street, London, E.C.4

**Halibut  
Liver Oil**

Finest Refined Quality

Biologically standardised  
for Vitamin A and D

**IN BULK**

Or in

5 c.c. vials in cartons. 15/- per dozen.

Also in

Bottles of 25 × 3m Capsules beautifully  
packed. 15/- per dozen.

**H.L.O. Emulsion**

**Keep  
'Endrine'  
to the fore**

More people suffer from colds, catarrh and respiratory disorders at this time of the year than at any other period. Take your profit on this lucrative business by giving 'Endrine' a prominent place in window and on counter. 13 to the dozen terms are available on 'Endrine' brand Nasal Compound, in return for a fortnight's display. Order now from your wholesaler.

*Next time you are  
dressing your window—*



*— make sure you have  
this new showcard*

**PETROLAGAR LABORATORIES  
LIMITED**

**OLDHILL STREET, LONDON, N.16**



**PARAFFINUM  
LIQUIDUM B.P.  
HIGH VISCOSITY**

◇

**TECHNICAL WHITE  
AND  
HALFWHITE OILS**

◇

**WHITE PETROLEUM  
JELLY**

PHARMACEUTICAL & TECHNICAL  
QUALITIES

◇

**HOLROYD'S  
OIL & CERESINE CO. LTD.**

3 NEW LONDON STREET, LONDON, E.C.3.

TELEPHONE:  
ROYAL 5126-7

TELEGRAMS:  
ERRIKOLROY  
FEN, LONDON

**AZYMA CACHETS**

**ARE THE BEST**

PRICE 3/3 per 1000

ALL SERIES & SIZES

•For samples write to the Sole Agent . . . .

**CICERO S. CLARK**

12 RICHMOND ROAD · W · 2

TELEPHONE · BAYSWATER 0116

WET CLOSING  
CACHETS

DRY CLOSING  
CACHETS

The famous **DCL** brand Yeast for medicinal use

**YEAST TABLETS**

**60 Tabs 1s. 6d. 120 Tabs 2s. 6d.**

*This preparation will improve the condition of the Blood*

Should retailers experience any difficulty in getting supplies through usual channels write to  
**The DISTILLERS COMPANY Ltd., EDINBURGH**

RETAILERS' DISCOUNT 33 1/3 %  
WHOLESALE 16 2/3 %  
ALL ORDERS CARRIAGE PAID





# THE PROOF OF THE PUDDING.....

LONDON  
Dec. 28, 1936

"I put Brustine Bon-Bons in  
"my window Monday morn-  
"ing last and at the rate  
"they are selling my 28 lbs.  
"should be gone by Satur-  
"day. Please send off at  
"once 4 cases.

Yours etc.

This spontaneous letter from an enterprising London chemist is the best proof you can want that "Brustine" is a real winner. What other line sells at this rate and shows such a handsome profit. There is everything to help you—show material, clockwork display stand, free samples, etc.—and once tried your customers will always buy "Brustine."

... and they  
show 50%  
on cost!

## Brustine BRAND

NOSE & THROAT

### BON-BONS

#### ★ HOW THEY SELL

Brustine Bon-Bons are sold through Chemists only at a fixed retail price of 6d. per qtr. They show a profit of 50% on cost. With every initial order we will send a unique clockwork Sales Bringer which is yours for as long as you wish. This and other show material, together with the free samples sent with every order, will quickly attract highly profitable sales and their efficacy will guarantee your repeat business.

#### ★ HOW THEY'RE PACKED

Brustine Bon-Bons are sold in 28 lb. case units containing 14 lbs. of each kind packed in 7 lb. tins. They are supplied loose, but with every case will be sent FREE 112 printed bags (to hold 1 lb.). 50 samples packed for FREE distribution and with every order for 10 cases ONE CASE WILL BE SUPPLIED FREE IN ADDITION.

*Get on to Brustine whilst  
FLU is about*

**BRUSTOC LIMITED**  
JOHN STREET, WARRINGTON







You can sell more Olive Oil—but only if it is of unblemished character to obtain sure benefits to the user. Recommend Olive Oil—but for your prestige's sake sell only Samaritan.

We will gladly send you a sample bottle on request.

**THORNTON & ROSS LTD**  
Manufacturing Chemists  
LINTHWAITE  
HUDDERSFIELD



## Nature's Golden Gift for Health & Beauty

Without any reservation whatever, we can claim that there is no finer olive oil than Samaritan. See how it gleams with golden goodness—the gleam of purity—for it is unblended—a virgin oil from the first pressing of the fruits known as "Grower's Selection."

SAMARITAN is the triple purpose oil. As a food it is nutritious and digestible; as a medicine it quickly re-invigorates after sickness; as a cosmetic it assists the skin to health and beauty.

# SAMARITAN

REGD.



A SCIENTIFIC  
COMBINATION  
OF MATURED WINE  
AND FRESH EGGS

Here is a really good all-round restorative which merits your confident recommendation, and can be sold by all licensed chemists. It is regularly prescribed by the medical profession.

## EGG-NOG

(mist. spt. vini. gallici)

THE SUPREME TONIC RESTORATIVE

Retail Prices :

per bottle - - - 5 6  
per ½ bottle - - - 3/-

We will gladly send a  
**FREE SAMPLE**  
and descriptive literature  
to any Chemist with a Wine  
Licence.

**LAMB & WATT LTD**  
LIVERPOOL 3

London enquiries to Sangers Ltd., 258 Euston Rd., N.W.1



## MASON'S GINGER

## WINE ESSENCE

IS SELLING FREELY

Apply for particulars of attractive  
Window Display offer

**NEWBALL & MASON LTD.**  
NOTTINGHAM

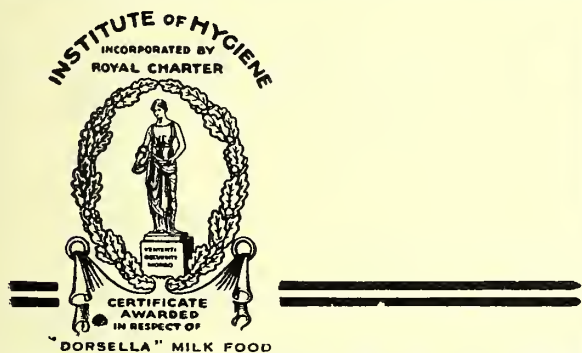


# ALMATA

## *An Announcement*

Keen, Robinson & Co. Ltd., announce that all tins of ALMATA—Keen's Complete Food—now being packed bear an expiry date instead of a code mark as hitherto. They hope that this new method of date marking will be of assistance to their trade friends. The following endorsement now appears on ALL TINS:—

THE CONTENTS OF THIS TIN SHOULD NOT BE USED AFTER



## ENGLISH DRIED MILK

*Enquiries are solicited for the following:*

FULL CREAM "DORSELLA" DRIED MILK

HALF CREAM

SEPARATED "PARAGON"

CASUMEN, SOLUBLE MILK

PROTEID

SWEETWHEY, CRYSTALS or

POWDER

KENCREAM FOR PUPPIES

UNITA (Dorsella and Casumen)

DRIED BUTTERMILK

Supplied in Bulk, Tins or Cartons

*Quotations and samples gladly sent on request.*

**PRIDEAUX'S, LTD.,**  
MOTCOMBE, SHAFTESBURY, DORSET

Telephone : Shaftesbury 4

## INFLUENZA!

*Now* is the time to sell  
**FORMALIN** and  
**EAU DE COLOGNE**  
**TABLETS**

—Gibson's delicious  
anti-'Flu Sweet

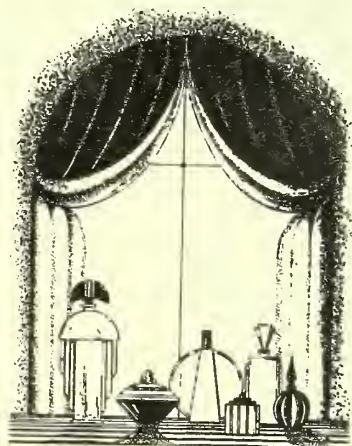
*Also*—**FORMALIN**  
**LOZENGES**

"F" BRAND

Supported by showcard  
material and effective  
sales aids.

**ROBERT GIBSON & SONS,**  
LIMITED,  
MANCHESTER AND LONDON





*Designers & Makers  
of  
Quality Glassware  
for  
Perfumery.*

ESTABLISHED 1828

**WOOD BROS. GLASS CO.  
LIMITED**

BARNSELY

ENGLAND

## MORE PROOF of the PULLING POWER of the **CHRISTIAN HERALD**

One of our many satisfied advertisers  
writes :

● "My last insertion resulted  
in twice as many replies as those  
from 4 other religious papers  
combined."

Another received :

● 7,500 Cash Orders from two  
small advertisements costing  
£13 10s.

Are YOU in the Christian Herald ?

If not, you are overlooking more than  
250,000 sound, middle-class homes—*homes*  
in the best sense of the word, where a  
straightforward line advertised in a straight-  
forward manner is sure of a ready welcome.  
Telephone CENTRAL 3559 for specimen  
copy and rate card. Dept. C.D. 3.

**CHRISTIAN HERALD Office,  
6 Tudor Street, London, E.C.4.**

Chris-  
tian  
Herald

4 Other  
papers in  
the religi-  
ous weekly  
group  
combined

**WAGNER'S DRY BOTTLE CAPS**  
BEST IN QUALITY & APPEARANCE  
PROMPT DELIVERIES



33 BROOKE ST., LONDON, E.C.1 Tel. Holborn 5090

# Armstrong's

TAPER **A** CORKS

ARMSTRONG CORK CO. LTD.,  
ALDWYCH HOUSE, LONDON, W.C.2.  
HOLBORN 9884/7 and HOLBORN 7503/5





# SURE Demand GOOD Profits

There is always a good demand for Sherley's Dog and Cat Foods and Medicines. They are extensively advertised, and Trade Terms are generous with special extra discounts of 2½% discount on £2 parcels plus a further 5% for window display. Excellent range of Show Material supplied Free.

See you hold ample stocks of Sherley's

Tonic & Condition Powders  
Worm Capsules & Powders  
Canker Lotion & Powder  
Cough Tablets — Fit Tablets  
Skincure — Insect Powder  
Formalin Soap — Shampoo  
Lactol and Lactol Biscuits, etc.

A postcard brings full particulars.

You can stock  
and recommend  
**SHERLEY  
PRODUCTS**  
with confidence  
because they are  
prepared by  
**FULLY  
QUALIFIED  
ANALYTICAL**  
and  
**PHARMACEUTICAL  
CHEMISTS**  
under expert  
**VETERINARY  
SUPERVISION**

A. F. SHERLEY AND  
CO., LTD.  
18 Marshalsea Road,  
London, S.E.1.

# SHERLEY'S DOG & CAT FOODS and MEDICINES

## F. MAUND & E. BERG (SHOWCASES) Ltd.

SHOPFITTERS & SHOPFRONT BUILDERS  
175/9 OLD STREET, LONDON, E.C.1  
Telephone: Clerkenwell 1782/3

are offering for sale, at competitive prices,  
an extensive and exceptionally full range of  
Chemists' Fittings, Second-hand and New.

**Specialists in**

**WABLE FLY DRESSING**

GUARANTEED  
as specified in  
The Cattle Dressing Order,  
1936.

This package contains  
4 ozs. Soap 'soluble in cold water'  
and sufficient Derris Powder to make  
**1 GALLON OF DRESSING**

WARM WATER NOT NECESSARY

**RETAIL 3/-**

GENEROUS  
TERMS TO  
CHEMISTS

●  
YOUR OWN PACK  
IF PREFERRED

●  
We specialise in  
all forms of

**DERRIS**

BUGGÉ'S  
INSECTICIDES LTD.  
SITTINGBOURNE KENT

Why

**CATALINE**

Pays  
to Stock

BECAUSE it enjoys the largest sale of  
any Cattle Medicine Preparation and  
is on the P.A.T.A.

BECAUSE it is consistently advertised and  
all advertisements refer to the Chemist  
as the source of supply.

BECAUSE it is well packed, does what it  
is advertised to do, and shows the  
trade a satisfactory profit.

BECAUSE we do not employ travellers  
to call on Farmers or solicit orders at  
cattle fairs or markets.

One size, retailed at face value, viz. : 3/9 per bott.

Cash with order terms :

1 doz. 36/-, 3 doz. at 35/6, 6 doz. at 35/-, 12 doz. at 34/6 per doz.  
CARR. PAID. CASES FREE.

Stocked by most Wholesale Houses.

**THE CATALINE CO., LTD., Bristol**



# The Greatest Name in Home Medicines

# BEECHAMS

## Your Strongest SALES foundation

Sound publicity extending over almost a century has made BEECHAMS the greatest name in home medicines to-day . . . . universally accepted as synonymous with purity, safety and efficacy. Think what a tremendous market this means for YOU! No risk of dead stock. A quick turnover with generous profit, day in and day out. Send a post-card NOW for free display material—use it and prove for yourself that Beecham Products can be your greatest and safest source of profits.

- ★ BEECHAMS PILLS  
Brand
- ★ BEECHAMS POWDERS  
Brand
- ★ BEECHAMS  
Brand LUNG SYRUP
- ★ LACTOPEPTINE  
Brand



**BEECHAMS PILLS LIMITED**  
ST. HELENS ★ LANCASHIRE





# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

FEBRUARY 6,  
1937

28 ESSEX STREET, LONDON, W.C.2

## ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

**BUSINESSES WANTED** and for **DISPOSAL, PREMISES TO LET** and for **SALE, PREMISES WANTED, PARTNERSHIPS, GOODS** for **SALE** and **AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**SITUATIONS OPEN**—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**SITUATIONS WANTED**—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**LEGAL NOTICES, TENDERS, AUCTIONS**, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column). (Box No., 1/- extra.)  
**MISCELLANEOUS (Wholesalers' Section)** for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)  
**EXCHANGE COLUMN** (for Retailers, etc.)—Twopence per word, minimum 2/- (Box No., 1/- extra.)  
**REPLIES FROM ADVERTISERS**—1/- per line; 3 lines 2/6.

**THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2**  
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

## CLOSING FOR PRESS

must reach us  
not later than

FIRST POST THURSDAY MORNING

All advertisements intended for  
insertion in this Supplement

## ORRIDGE & CO.

56 LUDGATE HILL, E.C.4

ESTABLISHED 1846

Telephone Nos.: CITY 2283 & 7477

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—GREENWICH.—Main Road Cash Retail Business for immediate sale; the concern has been neglected but the returns are now increasing, they have been as much as £30 per week plus a substantial Panel; there is nice living accommodation over; good clean saleable stock; price for immediate sale £150 all at; further details upon application.

2.—BATTERSEA.—DEATH VACANCY.—General Retail Business with Prescribing and Photographic; net profit £5-£6 per week; new Lease at £65 per annum; price all at £450 or near offer.

3.—HENDON.—Ill-health calls for the immediate sale of a Good Class Business with sub-Post Office attached; net profit about £4 per week; modern living accommodation with three bedrooms; stock and fixtures worth £400; sacrifice price £350 all at.

4.—MAIDA VALE.—Main Road corner shop with substantial Panel; old-established; net profit to Managing Proprietor £500 per annum; Accountants' figures; stock worth £450; nice fixtures; price all at £1,150, or valuation terms entertained.

5.—WEST MIDDLESEX.—Cash Retail Business; present takings £45-£50 per week with immense possibilities for further increase; good Panel; beautifully fitted shop containing ultra modern bronze and chromium shop front; stock and fixtures worth quite £900; excellent flat over; lowest price £1,250 all at, or valuation terms entertained; excellent opportunity.

6.—BALHAM.—Good-class Business situate in very good position; valuable Lease; takings average nearly £35 per week throughout the year; spacious handsomely fitted shop, heavily stocked; price about £1,200 all at or valuation terms entertained.

7.—HERTFORDSHIRE.—Middle-class Business situate in centre of thickly populated new district; takings this year about £1,550; net profit £400; attractive shop; light oak fixtures; stock worth about £500; large modern flat over; price of business £750; price of freehold £1,750.

8.—LEE, S.E.—General Retail Business run under the management of a lady; takings present rate £15-£20 per week, scope for considerable increase; new district; stock and fixtures worth at least £500; rent after allowing for sublet £45 per annum; long Lease; price all at £500 or nearest offer.

9.—LEYTONSTONE (NEAR).—Middle-class Business with excellent Panel; takings last year £1,350; net profit, Income Tax figures, £343; National Cash Register; excellent living accommodation; price all at £750 or near offer.

10.—KENT (FEW MILES OUT).—Middle- and Working-class Business with increasing turnover; net profit last year £374; excellent stock; very

low rental; living accommodation; price all at £500, or valuation terms entertained.

11.—HAMMERSMITH.—Very Good-class Retail Business in unique position; turnover this year at least £2,000; excellently fitted Pharmacy; heavy stock; stock and fixtures worth £700-£750; price about £1,100 all at; at present run under management.

12.—HOME COUNTY.—Country Retail Business for sale; takings average £33-£35 per week; good profits; double-fronted shop, well situate; nearest opposition over two miles away; nice living accommodation; price asked £900 all at; further details upon application.

13.—STAFFORDSHIRE.—Middle-class Business with full Wine Licence and Photographic; stable turnover, last year being £1,530, this year shows an increase; net profit approached £350 per annum; corner shop well fitted; good living accommodation over; new Lease at £80 per annum; price £1,000 all at or alternatively £250 plus valuation of stock and fixtures.

14.—BUCKS.—Well-established Middle-class Business; takings last year £1,064; fair profits; scope for increase; mahogany fixtures; substantial stock; nice living accommodation; price of business about £450-£500.

15.—SOUTH COAST.—Genuine Retail Business for sale owing to death of proprietor; turnover exceeds £1,300 per annum; good profits; stock worth about £400; nice living accommodation; rent only £65 per annum; price £800 all at or near offer.

16.—BLACKPOOL.—Cash Retail Business established over 60 years; takings last year approximately £1,750; net profit, £350; mahogany fixtures; excellent stock worth about £400; price £850 all at.

17.—GRIMSBY.—Middle and Working-class Business for sale owing to Vendor purchasing another business; old-established; increasing turnover, this year will be approximately £1,200; Accountants' figures; stock and fixtures worth about £700; exceptionally nice living accommodation; low rental; price £850 all at, or near offer.

18.—WALLASEY.—DEATH VACANCY.—General Retail Business with good private dispensing connection; in late proprietor's hands 20 years; returns over £1,000 per annum; excellent profits; nice living accommodation; price of business about £650; price of property £1,350 (Building Society will advance up to £1,200).

19.—MANCHESTER.—Good Middle-class Business offering scope for increase; present annual turnover about £1,000 per annum; has been over £2,000 per annum; good profits; spacious living accommodation; rent £60 per annum; price about £300 for the Goodwill and fixtures, plus stock at valuation which can be lowered to suit a purchaser.

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**Lancashire and District Representative : Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone : Great Moor 2405**

*Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.*

(C1) MITCHAM (NEAR).—DEATH VACANCY.—Prominently situated in busy main street; turnover for last year, £1,286; gross profit, £616; net profit, £380; rent by arrangement; living accommodation; price £850, or offer.

(C2) BOURNEMOUTH (NEAR).—Attractive modern Pharmacy with up-to-date flat; turnover £1,400, with definite scope for further development; main road situation; genuine reason for selling; price to comprise value of stock and fixtures, together with a small goodwill; offers invited.

(C3) PECKHAM (NEAR).—Prominently situated lock-up Pharmacy; increasing turnover now at the rate of £20/£25 per week; good scope with personal attention; low rental; price £500 or near offer.

(C4) HENDON.—Unopposed attractive main road Pharmacy with up-to-date flat; sub-post office attached; price £350 all-at.

(C5) SUSSEX COAST.—Old-style Pharmacy with excellent house, occupying prominent position; present returns small, but capable of substantial increase; reasonable purchase price, to be arranged.

(C6) READING (NEAR).—Middle-class business; turnover about £1,100; living accommodation; rent £100; price £550 or offer.

(C7) KINGSTON-ON-THAMES (NEAR).—Up-to-date Pharmacy with living accommodation; increasing turnover at present averaging about £100 per month; reasonable rental; price £500 or offer.

(C8) NORTH CHESHIRE.—Middle-class business, with small living accommodation; capable of considerable further increase; average returns about £1,200/£1,250 per annum; rent £70; Owner retiring; price approximately £600.

(C9) DULWICH.—Increasing business; present returns average between £25 and £30 weekly; living accommodation; reasonable rental; price £550/£600; offers considered.

(C10) HULL (DEATH VACANCY).—Present returns average slightly under £1,000 per annum, but capable of considerable increase with personal attention; gross profit for last year £415; rent £65; living accommodation; price £400 all-at.

(C11) NORTH STAFFS.—Unopposed village business; returns about £1,300 per annum; rent £18, including living accommodation; price £650, or valuation terms if preferred; offers considered.

(C12) LIVERPOOL.—Turnover about £800, but capable of considerable increase with personal attention; rent £52; living accommodation; price £400/£450, part of which could remain.

(C13) YORKSHIRE.—Turnover about £1,000; living accommodation; rent £50; price £550.

(C14) CHESHIRE.—Opportunity to purchase business with living accommodation at value of stock and fixtures only, estimated at £200/£225 rent £60; further details upon application.

(C15) FINSBURY PARK (NEAR).—Old-established Pharmacy with self-contained house, at present sub-let; scope for considerable increase under energetic proprietorship; rent, £60; sub-let £65; price £550, or near offer; owner retiring.

(C16) EARLS COURT (NEAR).—Branch business with good N.H.I.; two flats above, the rent from which is almost equivalent to that of the entire premises; present returns small, but capable of early increase; price for quick sale £300 or near offer.

(C17) SOUTH STAFFS.—Middle-class business with no opposition; good scope with personal interest; lock-up shop; rent £52; price about £500 all-at.

(C18) CHESHIRE (SMALL, TOWN).—Prominently situated lock-up Pharmacy; average turnover approximately £1,650 per annum; rent £60; for a quick sale owner will sell at sacrifice figure representing little more than value of stock and fixtures.

(C19) OLDHAM (NEAR).—Drug store with small house, situated on main road; turnover about £750 p.a.; scope for further increase; rent £35; price £450 all-at.

(C20) SURREY.—Up-to-date unopposed business very congenially situated; including at the moment small, but with good prospects; rent £80 including up-to-date flat; price £450 all-at.

(C21) HOVE.—Good-class Pharmacy which is very easily conducted; net profit approximately £270 p.a.; rent and rates more than covered by sub-let; reasonable purchase price.

(C22) NORTHANTS.—Old-established, middle-class business with good living accommodation; increasing turnover; returns for last year, £1,450; reasonable rental; long lease; price to comprise value of stock and fixtures together with goodwill, to be agreed (total will approximate £750/£800).

(C23) BARNET.—Established middle-class business; present returns average approximately £25 weekly; rent and rates almost entirely covered by sub-let income; price £600 or near offer.

(C24) SALFORD.—Turnover approximately £1,000 per annum; rent £50; living accommodation; price £400, or near offer, part of which might remain if necessary.

(C25) BERKSHIRE.—Unopposed Drug Store; present returns about £9 weekly, but these figures represent no criterion of capabilities; good living accommodation; rent £56 per annum; price £300 all at; owner retiring.

**Valuations for transfer, probate, income tax, etc., promptly executed at economical rates. Agency for locums, managers, etc.**

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1.—SUSSEX COAST (Death Vacancy).—Old-established Business, returning about £1,350, gross profits a third; rent only £65; double-fronted shop, with house over; stock and fixtures worth over £600; price £800.

2.—BERKSHIRE.—Middle-class Business in residential district; returns under manager £1,100; good profits; scope for increase; corner shop with house attached; owner retiring; price £550 or offer.

3.—LANCS COAST.—Well-established Business, in good position; returns £1,750; net profit £350, after paying assistant; modern front; stock and fixtures worth £650; price £850.

4.—SLOUGH (Near).—Unopposed Light Country Business; under female management; turnover £875; scope for increase; main-road position; low rent; price £350.

5.—SOUTH-EAST COAST.—Light General Retail; showing steady increase; turnover about £1,000; profits good; modern house; stock worth £350; price £500 or close offer.

6.—WEST LONDON.—Genuine Light Cash Retail, with good Panel; returns £1,900 under manager; net profit £500; audited accounts; main road; corner position; price £1,150, or valuation terms arranged.

7.—WEST MIDDLESEX.—Well-established, good middle-class Business; returns £2,200, increasing; excellent profits; low rent; prominent main-road position; price £1,250.

8.—LONDON, N.W.—Good-class suburban Retail; returns about £1,400; attractive modern shop, good position; stock worth £450; price £850 or offer.

9.—LONDON (Surrey Suburb).—Light Cash Retail, with Post Office attached; returns £845, plus £134 P.O. salary; net profit £378; no near opposition; price about £600.

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desirous of selling without any publicity or advertising should correspond with us without delay; we have cash buyers for businesses in all parts, up to £3,000 cash, especially Midlands, South-West, Southern and Home Counties. No sale, no charge.

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## BUSINESSES FOR DISPOSAL.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**BIRMINGHAM.**—Branch Business for disposal, offering scope for increase; up-to-date shop, with good living accommodation; expenses low; for quick sale, stock and fixtures at valuation, or near offer. 229/7, Office of this Paper.

**BIRMINGHAM.**—Old-established Chemist, main Bristol Road, half-mile city centre; close large cinema now being erected; lock-up shop; rent £46, rates £22 a year; present turnover about £12 weekly, easily increased; tenders for business as going concern (including stock, tenant's fixtures, fittings and cash register valued £130) opened February 12, 1937. For further particulars apply Official Receiver, 159 Great Charles Street, Birmingham.

**LONDON, S.E.**—Retail Druggist Business; lock-up shop; main road; 14 years' lease; established 6 years; under management; turnover £500; Qualified Pharmacist would achieve substantial increase; owner has other interests; stock, lease, fixtures and accessories at reasonable price. 235/22, Office of this Paper.

**MIDDLESEX** (about 22 miles from London).—A Business which will show double present turnover within 18 months, present returns £17-£18 per week plus N.H.I. £3-£4 monthly; fitted in modern oak; fully stocked; large flat over, which may be sublet for £75 per annum; price for quick sale £375; no offers. 234/17, Office of this Paper.

**NORTH LONDON.**—Old-established Drug Stores; living accommodation; present hands 13 years; Kodak Depot; returns £820; large N.H.I. available; price; stock and fixtures at valuation; freehold property £750; enquiries from Unqualified not entertained. 235/8, Office of this Paper.

**CHEMIST** Business for Sale, £165 all at; low rent; no opposition; at present in lady's hands, Unqualified; practically new fittings; also well stocked for a fully Qualified Chemist for Dispensing, etc. Apply at shop, E. C. Rennoldson, 36 Waterloo Road, Epsom.

**CHEMIST'S** Business in well-known South Coast town; with 14 years to run, on prominently situated premises; for Sale at £500, including benefit of sub-letting to Post Office; full particulars and trading figures available. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Tele.: Mayfair 7666.

**DISPENSING** and Photographic Business, with three Sole Agencies and useful Wholesale connexion; established nearly 10 years; fine premises; busy main road in prosperous Midland town; good trade under management; owner, living away, is retiring; low rent if leased, or would sell property; plenty of living accommodation if small addition is made to premises; good opportunity, as buyer could take over for price of stock only, about £670. Write 235/30, Office of this Paper.

**FOR DISPOSAL.**—Good Dispensing and Family Business; turnover at present £30 per week, increasing; Post Office salary £120 per annum, increasing; Library and Stationery extra turnover; situated 12 miles from Piccadilly; good living accommodation; splendid opportunity for man and wife, who would be able to look after Post Office; price for stock, fixtures, etc., £1,000. 234/140, Office of this Paper.

**FOR SALE.**—Drug Store in small country town, main road; lock-up; low rent; £275, including stock, fittings and goodwill. 232/2, Office of this Paper.

**HERBALIST,** Drug Stores; old-established, main road, W.C.2; lease at £80; living accommodation, 6 rooms; profits average £5 weekly; nearest chemist 1 mile away; neatly fitted and good, clean stock; sacrifice for quick sale; £225. 235/49, Office of this Paper.

**LOW PRICE FOR QUICK CASH SALE.**—Owing to ill-health; good Cash Business, with large and increasing Panel; busy market near West End; takings last two years average £1,850; convenient flat above, with refrigerator, bath and Multipoint water heater; long lease, renewable; freehold may be purchased if desired; four Doctors' Surgeries supplied; books open to inspection to genuine prospective buyers. 235/10, Office of this Paper.

**OLD-ESTABLISHED** Dispensing and Prescribing Business for disposal, Eastern County agricultural district; long lease; low rent; fully stocked; good fittings; Wine licence; N.H.I.; Photography; returns over £1,000 per annum; price £700; good house attached. 235/5, Office of this Paper.

## BUSINESSES WANTED

**WANTED** urgently, Business doing £2,000-£3,000; must have good living accommodation; situated within 100 miles of Aldershot; audited accounts essential; or would consider partnership with view to ultimate succession. Write Bonnett, 252 High Street, Aldershot, or telephone Aldershot 516.

## PREMISES WANTED

**INVESTOR** wishes to get in touch with owner-occupier of shop premises wishing to sell his property and remain in business on lease at a reasonable rental; no commission is required. Communications should be addressed, Peckham & Partners, 111 Uxbridge Road, W.5.

## PREMISES TO LET

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**BRIGHTON.**—Premises to Let; closed down owing to retirement from company of M.P.S. director; rent £55 per annum, on lease; lock-up shop; handsome front and window enclosures; electric fittings, etc.; good opportunity for young man; late proprietors require £50 for their fittings. Apply: Laurence Kingston, Ltd., 54 Preston Road, Brighton, 7.

**CRICKLEWOOD.**—At a very busy junction of main roads.

**WONDERFUL OPPORTUNITY FOR AN ENTER-PRISING CHEMIST AND PERFUMIER.**

Large shop with floor over to be Let on Lease at low rent of

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**NORTH HARROW.**—In fine Parade where multiple traders are already established, a few remaining Shops, each with five-roomed maisonette above, to Let at the low rental of £135 per annum; excellent opening for Chemist. Apply G. C. Wood & Co., The Clock House, High Road, Wembley, Wembley 3866; or F. W. Gapp & Co., Ltd., 54 Lower Sloane Street, Sloane Square, S.W.1, Sloane 9245.

**RUSTINGTON** (near Littlehampton).—New Shops to Let; fast-growing residential area; with or without living accommodation; corner main-road position; meeting immediate demand; excellent opening for Chemist; 3 left only; rents from £90 per annum exclusive. Full details Onslow Estates (Worthing), Ltd., 13 Liverpool Gardens, Worthing.

WELLING, KENT.

(Population over 60,000.)

WONDERFUL SCOPE FOR  
CHEMIST AND DRUGGIST.

SHOP, WITH LARGE FLAT OVER,  
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REASONABLE RENT  
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**CHEMIST'S PREMISES.**—Unusual opening for a live Chemist to become established in a London Suburb (population 35,000); handsome, newly built shop, with or without modern flat above; there is no appreciable opposition; attractively low rent to approved tenant. Way & Waller, 7 Hanover Square, W.1. Telephone: Mayfair 8022 (10 lines).



**HIGH-CLASS** Shops to Let in new Parade, in best part of High Road, Streatham, from £140-£500 p.a. Apply Letting Manager, 17 Streatham High Road (Phone: Streatham 9627), or Bell Investment Trust, Ltd., 115 Park Street, Mayfair, W.1 (Phone: Mayfair 4201).

**NEW** Shopping Centre in an established fully developed district close to Ealing; large lock-ups available at rents from £100 per annum; fine opening for Chemist. Apply G. C. Wood & Co., The Clock House, High Road, Wembley, Wembley 3866; or F. W. Gapp & Co., Ltd., 54 Lower Sloane Street, Sloane Square, S.W.1, Sloane 9245.

**OPPORTUNITY** OCCURS to establish a Business in a well-developed and rapidly growing district near Hounslow; only one shop now left on a Parade which occupies a commanding main-road corner position; a Chemist is urgently needed by the district and should be instantly successful; the accommodation comprises large sales shop and a self-contained flat above of four good rooms, kitchen, bathroom, etc.; the rent is £125 per annum exclusive on lease. Apply to John Allsop, Sole Agent, 433 Great West Road, Hounslow. Tel.: Hounslow 2620.

**SHOP** and Flat to Let, Claygate, opposite Mac Fisheries; only vacant shop in busy station parade; suitable opening for good Chemist. Apply to owner, Mrs. Wilkins Tilley, Fairlawn, Claygate, Surrey. Phone before 11 a.m.: Esher 223.

**TO CHEMISTS.**—Modern Shops, with living accommodation, in ideal positions, to be Let on lease or Sold freehold; suitable for branch or multiple stores; prices from £1,250; rentals from £100 per annum. Full particulars of P. Chase Gardener & Co., 295 High Street, Hounslow.

**£5.**—UNIQUE opening for Dental-Surgeon; position commanding 20,000 population, best position in London; anyone showing better position at same rent we will forfeit £5; rent £80 per annum, no rates or taxes. Apply Bowen & Williams, 10 North Pole Road, W.10.

## APARTMENTS

### THE HAMPDEN RESIDENTIAL CLUB

**FOR GENTLEMEN**, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 Bedrooms. 12s. 6d. to 25s. per week, including bath, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

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**CHEMISTS** and their friends must have often wondered re the advantages or otherwise of a Private Limited Company. After 25 years' experience you can rely on my free advice; you will not regret following it. Quotation inclusive. All correspondence confidential.

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721 PRINCESS ROAD, West Didsbury.

## BUSINESS OPPORTUNITIES

**MANUFACTURING** Chemists' Private Company, with 6 proprietary lines of high standing on the market which are capable of extensive exploitation, seek active co-operation of another Manufacturer with distribution and available capital. 232/1, Office of this Paper.

## PATENTS

**THE** Proprietor of Patent No. 356083 and of Patent of Addition No. 376996 thereto, for apparatus for irradiating liquids (in particular pharmaceutical products, milk, etc.), is desirous of entering into arrangements by way of licence or otherwise on reasonable terms for the purpose of exploiting such Patents and ensuring their full development and practical working in this country. Inquiries in the first instance should be addressed to Gee & Co., Patent Agents, 51 and 52 Chancery Lane, London, W.C.2.

## EDUCATIONAL

**FOR TUITION** in Mathematics, Optics and

Sight-testing apply C. V. Bolton, F.S.M.C.,

F.I.O., 49A Leigh Road, Leigh, Lancs.

## PARTNERSHIPS

**A** CONTINENTAL Pharmacist, possessing a number of valuable formulas and having extensive Manufacturing experience, invites correspondence from British Manufacturers of Pharmaceutical or Toilet Preparations, with a view to active collaboration or partnership; excellent connexions and British references. 235/44, Office of this Paper.

## AGENCIES

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**AGENT** for well-known firm, with sound connexion throughout Lancashire, requires additional line, preferably well-advertised proprietary. 234/12, Office of this Paper.

**THE** Principal of an old and well-established foreign firm of Manufacturing Chemists and Growers of Medicinal Herbs is at present in London and is desirous of getting into touch with Distributors of Packed Pharmaceutical and Proprietary lines; exclusive terms are offered; correspondence invited with reputable firms with sound distributing organisation. P.C.B. 233/10, Office of this Office.

## DIRECTORSHIPS

**PHARMACEUTICAL** Manufacturer has vacancy on the board of directors for Analytical Chemist, to take charge of Control Laboratory; qualification £500 investment; substantial salary. Write 295/677, Office of this Paper.

## TENDERS

### COUNTY COUNCIL OF MIDDLESEX. PUBLIC ASSISTANCE DEPARTMENT.

**TENDERS FOR DRUGS, DRESSINGS, SURGICAL APPLIANCES, SURGICAL INSTRUMENTS, etc.; X-RAY, LIGHT, PATHOLOGICAL AND RADIUM REQUISITES.**

**THE** County Council of Middlesex invites tenders for the supply of the above goods or materials for **SIX MONTHS** from the 1st April, 1937, to its several Hospitals, Institutions, Sanatoria, Children's Homes, Offices, etc.

Forms of tender (upon which only tenders will be considered) and conditions of contract may be obtained on application to the Director of Public Assistance, "L.I." 5 Central Buildings (Fourth Floor), Matthew Parker Street, Westminster, S.W.1, accompanied by a stamped addressed foolscap envelope.

Sealed tenders, marked "Tender for ....." must be delivered at or before 11 a.m. on Friday, the 26th February, 1937, addressed to "The Clerk of the Middlesex County Council, Guildhall, Westminster, S.W.1."

The Council does not bind itself to accept the lowest or any tender and reserves the right to accept any tender or part only.

Estimated quantities required are stated in the form of tender, and tenderers may tender to supply all or any one or more of the establishments concerned.

C. W. RADCLIFFE,  
Clerk of the County Council.

Guildhall, Westminster,  
February, 1937.  
PA/H/192.



## WAREHOUSE ACCOMMODATION

**MANUFACTURERS** of Dental and Toilet Preparations offer share of small Warehouse and Office accommodation to similar concern; moderate rental; warehousenau and clerical assistance available. Write 234/1, Office of this Paper.

## APPOINTMENTS

### LONDON COUNTY COUNCIL.

#### PHARMACISTS.

**PHARMACISTS**, men or women, holding certificate of Pharmaceutical Society of Great Britain, are required at the following hospitals in the Public Health Department:—

*Pharmacists. Scale "C"—*

- (1) St. Olaves Hospital (for duty at out-relief dispensaries Lower Road, S.E.16, and Shad Thames, S.E.1).
- (2) St. Andrew's Hospital (for duty at out-relief dispensary, 45 Upper North Street, E.14).

Scale of salary, £250—£10—£300 a year; hours of duty, 41½ a week.

*Pharmacists to act as Assistants to other Pharmacists—*

- (3) St. Stephen's Hospital, 369 Fulham Road, S.W.10.
- (4) Lewisham Hospital, Lewisham, S.E.13.
- (5) Dulwich Hospital, East Dulwich Grove, S.E.22.
- (6) Mile End Hospital, Bancroft Road, E.1.
- (7) St. Giles' Hospital, Brunswick Square, S.E.5.
- (8) St. James's Hospital, Ouseley Road, Balham, S.W.12.
- (9) St. Luke's Hospital, Sydney Street, Chelsea, S.W.3, and St. Charles' Hospital, St. Charles' Square, Ladbroke Grove, W.10 (part-time at each hospital).

Scale of salary, £225—£10—£275 a year; hours of duty, 41½ a week.

Forms of application obtainable from the Medical Officer of Health (S.D.3), The County Hall, S.E.1. Returnable by February 20, 1937. Canvassing disqualifies.

## SITUATIONS OPEN

### RETAIL (HOME)

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**EALING**.—Qualified, part-time, each Wednesday evening and alternate Sunday evening; also West End, Thursday and Sunday evenings; experienced at Counter and Dispensing; state full details, time at liberty and salary. 234/13, Office of this Paper.

**LIVERPOOL**.—Qualified Manager, young, energetic, capable and trustworthy, for working-class trade, with N.H.I.; state age, salary required, when free; send references, with photo and stamped addressed envelope for its return. 235/7, Office of this Paper.

**LIVERPOOL**.—Qualified Superintendent, for working-class business, chiefly N.H.I. Dispensing. Apply, with usual particulars and salary required, 237/1, Office of this Paper.

**LONDON, N.W.**.—Qualified Junior Assistant, male, required for Dispensing Counter of high-class business; excellent prospects; full particulars, age, height, previous experience and salary expected. 295/675, Office of this Paper.

**LONDON, W.**.—Young Unqualified Assistant, at once, for high-class business; must have a pleasant counter manner and able to Dress good Windows; state salary and experience in first letter. Collins, c/o Bouilly, 85 Bishops Road, Bayswater.

**MANCHESTER**.—Experienced Branch Manager (about 30) required for Family Trade, with heavy N.H.I., in working-class district; must be reliable, capable and business builder; £4 and commission offered. "Cascara," 235/13, Office of this Paper.

**MANCHESTER**.—Young Qualified Assistant, good Window-dresser, neat and pleasant appearance and gentlemanly manner, for good-class business; fullest particulars, and recent photograph if available. 295/679, Office of this Paper.

**NOTTINGHAMSHIRE**.—Thoroughly trustworthy and capable Qualified Manager required for good-class branch Pharmacy; C.F. supporter and good Window-dresser essential; please send full particulars, copies of references, salary required and photograph if available; interview later. 235/11, Office of this Paper.

**A** CAPABLE Qualified Managing Assistant; must have had good West End or high-class Provincial experience, and references must bear strictest investigation. Apply 295/680, Office of this Paper.

**JUNIOR** Assistant, male, permanency, required for busy good-class Pharmacy; must be thoroughly reliable, of good appearance, pleasant Counter manner; quick, willing, accurate worker; accustomed to Display Work. Give full particulars *re* age, height, experience, references, wages required, etc., in confidence, to Mr. Nicoll, Proprietor, Peebles-Chemists, High Street, Dorking, Surrey.

**JUNIOR** Assistant required; one who has had experience in a good-class business. Apply, with full particulars and salary expected, to W. Adams & Son, Pharmaceutical Chemists, Shrewsbury.

**L**ADY Assistant required; thorough knowledge of Toilet business (Cyclax or Arden) essential; some Pharmaceutical knowledge. Full particulars to Blaker, Ltd., Chemists, High Street, Haslemere, Surrey.

**L**ADY Assistant required, Unqualified, Wholesale Chemistry Department; give particulars of experience and salary required. Hardy & Son, Ltd., Brown Street, Salisbury.

**L**ADY M.P.S., light Retail, North London. Kindly reply, stating age, salary, experience, etc., 235/32, Office of this Paper.

**M**ANAGER, Irish, qualification F.S., with experience of first-class Retail, Sundries and Toilet Goods; responsible for Window-dressing. Reply 232/6, Office of this Paper.

**N**ATIONAL HOSPITAL, Queen Square, Bloomsbury, W.C.1.—Wanted for February 15, youth as Laboratory Assistant in Dispensary Department; commencing salary £2 week, with dinner and tea. Apply Pharmacist.

**P**HARMACY.—Female Assistant required; must have had general Pharmaceutical and shop experience; widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Ltd., 115 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or Officials will disqualify.

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**Q**UALIFIED Assistant required, end of month, for Retail business London; good appearance; keen Salesman and accurate N.H.I. Dispensing; give full particulars *re* age, height and experience, references and salary required. 235/51, Office of this Paper.

**Q**UALIFIED.—Competent Assistant, male, wanted at once, for North Manchester district. Full particulars, age, wage, etc., 295/681, Office of this Paper.

**Q**UALIFIED Junior wanted; quick Dispenser; knowledge of Photography; no Sunday or half-holiday duty; comfortable berth for the right man; fullest particulars, age, experience and salary required in first letter. Liner, Chemist, Gt. Yarmouth.

**R**EQUIRED soon, Qualified Assistant; good all-round experience; neat worker; abstainer; permanency; please state particulars and salary required (moderate); photos returned, otherwise applicants not answered within 7 days respectfully declined; South Coast. 237/2, Office of this Paper.

**S**MART Junior required for North London Business; must be competent Dispenser and have knowledge of Counter work; please give references and state age and salary required prior to interview. 235/3, Office of this Paper.



**UNQUALIFIED.** Assistant required, three weeks from February 15, evenings 6-8, all day Saturday; good Salesman and Dispenser. Write, with full particulars, to Chemist, 51 Holloway Road, N.7.

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**WANTED.**—Unqualified Lady Assistant for Chemist Department; must be fully experienced for Counter and general shop routine. Apply by letter, stating age, experience and salary required, not later than Wednesday, February 10, to Managing Secretary, Fallsworth Industrial Society, Ltd., 9 Church Street, Newton Heath, Manchester, 10.

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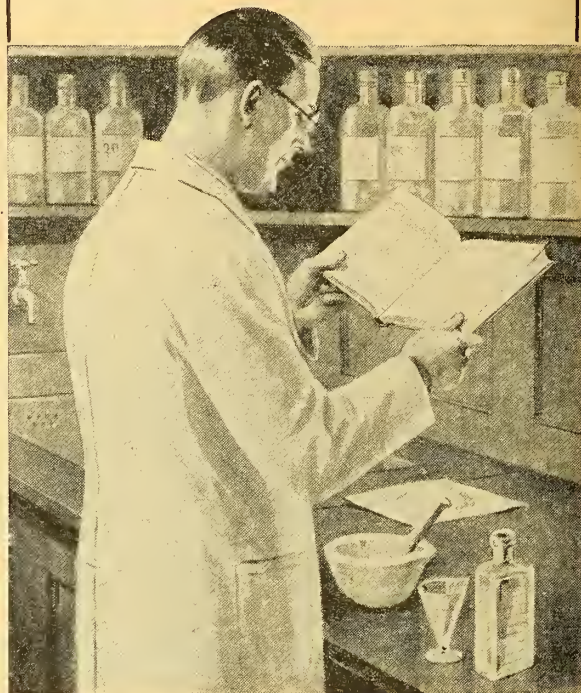
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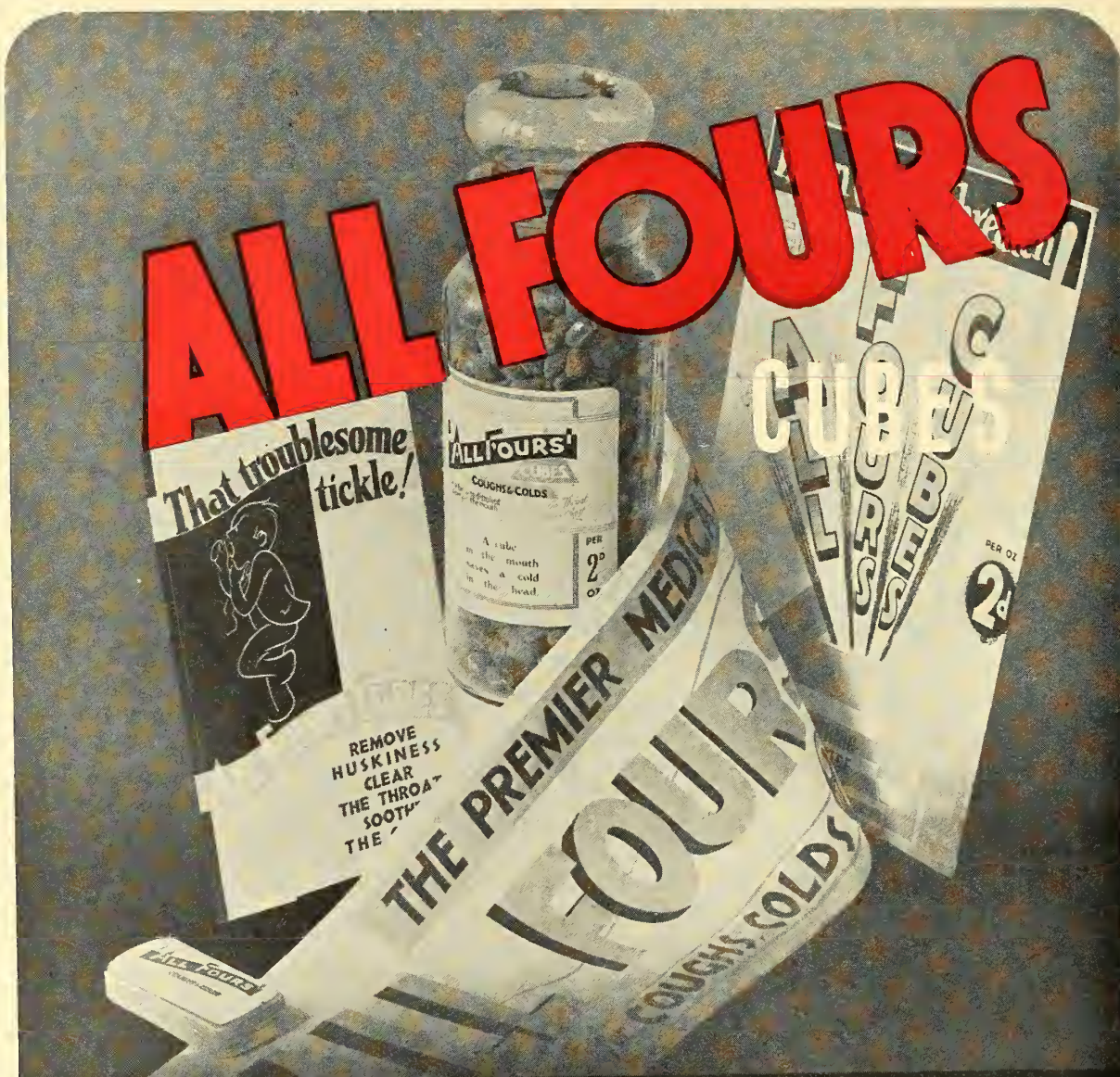
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